



Open Source Used In CDNATelemetry 1.4 - Pipelines (Darwin)

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1.3 commons-net 3.1

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1.4 junit 4.10

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- /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Message.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringArrayList.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UnknownFieldSet.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/BlockingRpcChannel.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/WireFormat.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/GeneratedMessageLite.java
- *
- /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LiteralByteString.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/SmallSortedMap.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Service.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractMessageLite.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/DynamicMessage.java
- * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-

sources-jar/com/google/protobuf/ByteString.java

*

/opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedOutputStream.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RopeByteString.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ExtensionRegistryLite.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ExtensionRegistry.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/FieldSet.java

*

/opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractParser.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractMessage.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/SingleFieldBuilder.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Descriptors.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Internal.java

*

/opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UninitializedMessageException.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/BoundedByteString.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Parser.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/MessageLite.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedInputStream.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/MessageOrBuilder.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/TextFormat.java

*

/opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringList.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcCallback.java

* /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-

1.11 commons-collections 3.2.2

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1.13 commons-io 2.4

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1.14 commons-http-client 3.1

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 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/MalformedChallengeException.java,v 1.6
 2004/05/13 04:02:00 mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/MalformedChallengeException.java
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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpException.java,v 1.19 2004/09/30 18:53:20 olegk
Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/HttpException.java

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commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodBase.java,v 1.222 2005/01/14 21:16:40
olegk Exp $
* $Revision: 539441 $
* $Date: 2007-05-18 14:56:55 +0200 (Fri, 18 May 2007) $
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```

Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpMethodBase.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/DigestScheme.java,v 1.22 2004/12/30 11:01:27
oglueck Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
* =====
```

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/auth/DigestScheme.java

No license file was found, but licenses were detected in source scan.

```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthenticator.java,v 1.19 2004/10/06
 17:32:04 olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/HttpAuthenticator.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodRetryHandler.java,v 1.2 2004/09/14
20:11:31 olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HttpMethodRetryHandler.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ConnectTimeoutException.java,v 1.5 2004/07/05 22:46:58 olegk Exp \$

* \$Revision: 480424 \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ConnectTimeoutException.java

No license file was found, but licenses were detected in source scan.

```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp
$
 * $Revision: 480424 $
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```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/StatusLine.java

```

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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19
olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/methods/GetMethod.java

No license file was found, but licenses were detected in source scan.

```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedOutputStream.java,v 1.16 2004/05/13
 04:03:25 mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ChunkedOutputStream.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java,v 1.47
2004/12/21 11:27:55 olegk Exp \$

* \$Revision: 564906 \$

* \$Date: 2007-08-11 14:27:18 +0200 (Sat, 11 Aug 2007) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java,v 1.10 2004/05/13 04:01:22 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp \$

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jar/org/apache/commons/httpclient/Header.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/WireLogOutputStream.java,v 1.7 2004/06/24 21:39:52
mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/WireLogOutputStream.java
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```

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jar/org/apache/commons/httpclient/InvalidRedirectLocationException.java
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HeaderElement.java,v 1.23 2004/05/13 04:03:25
mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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jar/org/apache/commons/httpclient/HeaderElement.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethod.java,v 1.43 2004/10/07 16:14:15 olegk
Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/HttpMethod.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34
jsdever Exp $
* $Revision: 505890 $
* $Date: 2007-02-11 12:25:25 +0100 (Sun, 11 Feb 2007) $
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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java,v 1.10
 2004/05/13 04:01:22 mbecke Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/OptionsMethod.java,v 1.15 2004/04/18
23:51:37 jsdever Exp \$
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/OptionsMethod.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/cookie/MalformedCookieException.java,v 1.8 2004/05/13 04:02:00 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/MalformedCookieException.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java,v 1.4
2004/05/13 04:02:00 mbecke Exp \$
* \$Revision: 480424 \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java,v 1.2 2004/04/18
23:51:36 jsdever Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScheme.java,v 1.12 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthScheme.java
No license file was found, but licenses were detected in source scan.

/*
* \$HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/methods/FileRequestEntity.java \$
* \$Revision: 486665 \$
* \$Date: 2006-12-13 15:19:07 +0100 (Wed, 13 Dec 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/FileRequestEntity.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk Exp \$

* \$Revision: 507321 \$

* \$Date: 2007-02-14 01:10:51 +0100 (Wed, 14 Feb 2007) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/URIUtil.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55 olegk Exp \$

```
* $Revision: 480424 $
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*/opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ChunkedInputStream.java
No license file was found, but licenses were detected in source scan.
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```
/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/cookie/RFC2965Spec.java $
```

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* $Revision: 507134 $
* $Date: 2007-02-13 19:18:05 +0100 (Tue, 13 Feb 2007) $
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jar/org/apache/commons/httpclient/cookie/RFC2965Spec.java
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/*

*

\$HeadURL:https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/trunk/src/java/org/apache/commons/
httpclient/cookie/CookieOrigin.java \$

* \$Revision:400312 \$

* \$Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) \$

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jar/org/apache/commons/httpclient/cookie/CookieOrigin.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/TimeoutController.java,v 1.6 2004/04/18 23:51:38
jsdever Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-

jar/org/apache/commons/httpclient/util/TimeoutController.java
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java,v 1.6
2004/04/18 23:51:38 jsdever Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java
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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java,v 1.7
2004/04/18 23:51:37 jsdever Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionParams.java,v 1.6 2004/09/15
20:32:21 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/params/HttpConnectionParams.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Cookie.java,v 1.44 2004/06/05 16:49:20 olegk Exp $
* $Revision: 531354 $
* $Date: 2007-04-23 08:53:20 +0200 (Mon, 23 Apr 2007) $
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22 mbecke Exp \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParser.java,v 1.11 2004/11/06 19:15:42

mbecke Exp \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36
jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthState.java,v 1.3 2004/11/02 19:39:16 olegk
Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthState.java

No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeParser.java,v 1.10 2004/05/13
04:02:00 mbecke Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthChallengeParser.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParams.java,v 1.6 2004/05/13 04:01:22 mbecke Exp \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/params/HttpParams.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java,v 1.6 2004/09/14 20:11:31 olegk Exp \$

```

* $Revision: 480424 $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/EntityEnclosingMethod.java,v 1.39
2004/07/03 14:27:03 olegk Exp $

```

```

* $Revision: 480424 $
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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScope.java,v 1.2 2004/06/23 06:50:25 olegk
 Exp \$
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Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthScope.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/RFC2109Spec.java,v 1.21 2004/06/05
16:49:20 olegk Exp $
* $Revision: 507134 $
* $Date: 2007-02-13 19:18:05 +0100 (Tue, 13 Feb 2007) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/RFC2109Spec.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/DateUtil.java,v 1.2 2004/12/24 20:36:13 olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/DateUtil.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke Exp \$

* \$Revision: 480424 \$

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```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HeaderGroup.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpParser.java,v 1.13 2005/01/11 13:57:06 oglueck
Exp $
* $Revision: 533405 $
* $Date: 2007-04-28 20:19:29 +0200 (Sat, 28 Apr 2007) $
*

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpParser.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsProvider.java,v 1.6 2004/07/05
22:46:59 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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commons/httpclient/src/java/org/apache/commons/httpclient/SimpleHttpConnectionManager.java,v 1.23
2004/10/16 22:40:08 mbecke Exp $
* $Revision: 480424 $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NoHttpResponseException.java,v 1.1 2004/07/05
22:46:58 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/WireLogInputStream.java,v 1.15 2004/06/24 21:39:52
 mbecke Exp \$
 * \$Revision: 480424 \$
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jar/org/apache/commons/httpclient/WireLogInputStream.java

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParamsFactory.java,v 1.5 2004/05/13
04:01:22 mbecke Exp \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/Protocol.java,v 1.10 2004/04/18 23:51:38 jsdever Exp \$

* \$Revision: 480424 \$

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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLM.java,v 1.11 2004/05/13 04:02:00 mbecke
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/**
 * Provides an implementation of the NTLM authentication protocol.
 * <p>
 * This class provides methods for generating authentication
 * challenge responses for the NTLM authentication protocol. The NTLM
 * protocol is a proprietary Microsoft protocol and as such no RFC
 * exists for it. This class is based upon the reverse engineering
 * efforts of a wide range of people.</p>
 *
 * <p>Please note that an implementation of JCE must be correctly installed
 * and configured when
 * using NTLM support.</p>
 *
 * <p>This class should not be used externally to HttpClient as it's API is specifically
 * designed to work with HttpClient's use case, in particular it's connection management.</p>
 *
 */

```

* @author Adrian Sutton
* @author Jeff Dever
* @author Mike Bowler
*
* @version \$Revision: 480424 \$ \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
* @since 3.0
*/

Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/NTLM.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /cvsroot/httpc-cookie2/httpc-cookie2/httpcookie2SVN-patch.082805-2100.diff,v 1.1 2005/08/29 05:01:58 sjain700 Exp \$

* \$Revision:400312 \$

* \$Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/Cookie2.java

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpec.java,v 1.11 2004/09/14 20:11:31
olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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```

Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/CookieSpec.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/RFC2617Scheme.java,v 1.10 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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 * /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/auth/RFC2617Scheme.java
 No license file was found, but licenses were detected in source scan.

```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.11 2004/09/30 17:26:41 oglueck
 Exp $
 * $Revision: 480424 $
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jar/org/apache/commons/httpclient/HttpsURL.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NameValuePair.java,v 1.17 2004/04/18 23:51:35
jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/NameValuePair.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/DeleteMethod.java,v 1.14 2004/04/18 23:51:37 jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/DeleteMethod.java

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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java,v 1.1
2004/07/05 22:46:58 olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java

```

No license file was found, but licenses were detected in source scan.

```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31
olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/cookie/CookiePolicy.java

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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/URIException.java,v 1.12 2004/09/30 18:53:20 olegk
 Exp \$
 * \$Revision: 480424 \$
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- * /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/URIException.java

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/*

- * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java,v 1.10 2004/05/13 04:01:22 mbecke Exp \$

- * \$Revision: 480424 \$

- * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/ExpectContinueMethod.java,v 1.13 2004/05/08 10:12:08 olegk Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/util/URLConnection.java,v 1.15 2004/04/18

23:51:38 jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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jar/org/apache/commons/httpclient/util/URLConnection.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectMethod.java,v 1.29 2004/06/24 21:39:52
mbecke Exp \$

* \$Revision: 483949 \$

* \$Date: 2006-12-08 12:34:50 +0100 (Fri, 08 Dec 2006) \$

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 jar/org/apache/commons/httpclient/ConnectMethod.java
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 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartBase.java,v 1.5 2004/04/18
 23:51:37 jsdever Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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jar/org/apache/commons/httpclient/methods/multipart/PartBase.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java,v 1.16
2004/11/20 21:48:47 mbecke Exp \$
* \$Revision: 566065 \$
* \$Date: 2007-08-15 10:34:30 +0200 (Wed, 15 Aug 2007) \$

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jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java  
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/*

```
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePart.java,v 1.19 2004/04/18  
23:51:37 jsdever Exp $  
* $Revision: 480424 $  
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
```

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jar/org/apache/commons/httpclient/methods/multipart/FilePart.java  
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/*

```
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/auth/InvalidCredentialsException.java,v 1.4  
2004/05/13 04:02:00 mbecke Exp $  
* $Revision: 480424 $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/InvalidCredentialsException.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ProxyClient.java,v 1.5 2004/12/20 11:39:04 olegk Exp
\$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ProxyClient.java

```

No license file was found, but licenses were detected in source scan.

```

/*
*
$HeadURL:https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/trunk/src/java/org/apache/commons/
httpclient/cookie/CookieAttributeHandler.java $
* $Revision:400312 $
* $Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) $
*
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/StringPart.java,v 1.11 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/multipart/StringPart.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartSource.java,v 1.6 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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 * /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/methods/multipart/PartSource.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java,v 1.2
 2004/05/13 02:40:36 mbecke Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
 *
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java
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/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/util/LangUtils.java \$

* \$Revision: 480424 \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeException.java,v 1.2 2004/04/18 23:51:36 jsdever Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46 olegk Exp \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/ExceptionUtil.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpStatus.java,v 1.18 2004/05/02 11:21:13 olegk Exp \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpStatus.java
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/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/URI.java $
* $Revision: 564973 $
* $Date: 2007-08-11 22:51:47 +0200 (Sat, 11 Aug 2007) $
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/CircularRedirectException.java,v 1.1 2005/01/14
19:40:39 olegk Exp \$
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/HeadMethod.java,v 1.29 2004/06/13 20:22:19 olegk Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParseException.java,v 1.5 2004/11/06

19:15:42 mbecke Exp \$

* \$Revision: 480424 \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/PutMethod.java,v 1.26 2004/04/18 23:51:37
jsdever Exp \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/PutMethod.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConstants.java,v 1.15 2004/04/18 23:51:35
jsdever Exp $
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jar/org/apache/commons/httpclient/HttpConstants.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpecBase.java,v 1.28 2004/11/06
19:15:42 mbecke Exp \$

* \$Revision: 480424 \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnection.java,v 1.107 2005/01/14 21:30:59 olegk Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp \$

* \$Revision: 510587 \$

* \$Date: 2007-02-22 17:56:08 +0100 (Thu, 22 Feb 2007) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ProxyHost.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java,v 1.9
2004/09/13 16:25:20 olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpMethodParams.java,v 1.17 2004/10/06
17:32:04 olegk Exp $
* $Revision: 483949 $
* $Date: 2006-12-08 12:34:50 +0100 (Fri, 08 Dec 2006) $
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnectionManager.java,v 1.24 2004/07/05
22:46:58 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpConnectionManager.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java,v 1.2
2004/04/18 23:51:38 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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```

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthPolicy.java,v 1.6 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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*/

/**

* Authentication policy class. The Authentication policy provides corresponding
* authentication scheme interfrace for a given type of authorization challenge.
* <p>The following specifications are provided:

*

* <tt>Basic</tt>: Basic authentication scheme as defined in RFC2617

* (considered inherently insecure, but most widely supported)

* <tt>Digest</tt>: Digest authentication scheme as defined in RFC2617

* <tt>NTLM</tt>:

The NTLM scheme is a proprietary Microsoft Windows

* Authentication protocol (considered to be the most secure among

* currently supported authentication schemes)

*

*

* @author Oleg Kalnichevski

*

* @version \$Revision: 480424 \$

* @since 3.0

*/

/**

* The NTLM scheme is a proprietary Microsoft Windows Authentication
* protocol (considered to be the most secure among currently supported
* authentication schemes).

*/

Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthPolicy.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java,v 1.11 2004/05/13

04:02:00 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever

Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/Credentials.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HostParams.java,v 1.5 2004/10/06 17:32:04
olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/params/HostParams.java

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/*

* \$Header\$

* \$Revision:400312 \$

* \$Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/CookiePathComparator.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.18 2004/09/30 17:26:41 oglueck
Exp $
* $Revision: 507324 $
* $Date: 2007-02-14 01:12:11 +0100 (Wed, 14 Feb 2007) $
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```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpURL.java
```

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```
/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/methods/StringRequestEntity.java $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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 jar/org/apache/commons/httpclient/methods/StringRequestEntity.java
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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePartSource.java,v 1.10
 2004/04/18 23:51:37 jsdever Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NTCCredentials.java,v 1.10 2004/04/18 23:51:35
jsdever Exp $
* $Revision: 480424 $
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jar/org/apache/commons/httpclient/NTCredentials.java
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParams.java,v 1.9 2004/12/21
23:15:21 olegk Exp \$
* \$Revision: 510589 \$
* \$Date: 2007-02-22 18:04:52 +0100 (Thu, 22 Feb 2007) \$

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jar/org/apache/commons/httpclient/params/DefaultHttpParams.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ResponseConsumedWatcher.java,v 1.5 2004/04/18
23:51:35 jsdever Exp $
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* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/ResponseConsumedWatcher.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpHost.java,v 1.3 2005/01/14 21:16:40 olegk Exp $
* $Revision: 510587 $
* $Date: 2007-02-22 17:56:08 +0100 (Thu, 22 Feb 2007) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpHost.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Wire.java,v 1.9 2004/06/24 21:39:52 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/Wire.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ContentLengthInputStream.java,v 1.12 2004/10/04 22:05:44 olegk Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/DefaultMethodRetryHandler.java,v 1.4 2004/07/05 22:46:58 olegk Exp \$

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No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/methods/RequestEntity.java,v 1.4 2004/05/17

21:46:03 olegk Exp \$

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jar/org/apache/commons/httpclient/methods/RequestEntity.java

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/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/util/ParameterFormatter.java \$

* \$Revision: 480424 \$

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jar/org/apache/commons/httpclient/util/ParameterFormatter.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpClientError.java,v 1.4 2004/05/13 04:03:25
mbecke Exp \$

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jar/org/apache/commons/httpclient/HttpClientError.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java,v 1.1
2004/10/06 03:39:59 mbecke Exp \$

* \$Revision: 502647 \$

* \$Date: 2007-02-02 17:22:54 +0100 (Fri, 02 Feb 2007) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/EncodingUtil.java,v 1.8 2004/05/13 04:01:22 mbecke Exp \$

* \$Revision: 480424 \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java,v 1.4 2004/12/21 23:15:21 olegk Exp \$

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jar/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionHandler.java,v 1.2 2004/05/13
02:40:36 mbecke Exp \$

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jar/org/apache/commons/httpclient/util/IdleConnectionHandler.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/MethodRetryHandler.java,v 1.5 2004/07/05 22:46:58
olegk Exp $
* $Revision: 480424 $
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jar/org/apache/commons/httpclient/MethodRetryHandler.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthenticationException.java,v 1.6 2004/05/13
04:02:00 mbecke Exp \$
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jar/org/apache/commons/httpclient/auth/AuthenticationException.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpClientParams.java,v 1.7 2004/05/13 04:01:22 mbecke Exp \$

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jar/org/apache/commons/httpclient/methods/multipart/Part.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java,v 1.3
2004/05/13 02:26:08 mbecke Exp \$
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jar/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/InputStreamRequestEntity.java,v 1.4
2004/05/17 21:46:03 olegk Exp $
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jar/org/apache/commons/httpclient/methods/InputStreamRequestEntity.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLMScheme.java,v 1.21 2004/05/13 04:02:00
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 *
 * @author Remy Maucherat
 * @author Rodney Waldhoff
 * @author Jeff Dever
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 * @author Oleg Kalnichevski
 */

Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/auth/NTLMScheme.java

No license file was found, but licenses were detected in source scan.

```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthRealm.java,v 1.9 2004/06/12 22:47:23
 olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
 *
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*
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/HttpAuthRealm.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/MultipartPostMethod.java,v 1.27 2004/10/06 03:39:59 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/MultipartPostMethod.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/ProtocolException.java,v 1.4 2004/05/13 04:03:25

mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ProtocolException.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/TraceMethod.java
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/CookieVersionSupport.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpVersion.java,v 1.6 2004/12/20 19:52:50 olegk
Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpVersion.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java,v 1.3
2004/12/20 11:47:46 olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/UsernamePasswordCredentials.java,v 1.14 2004/04/18 23:51:35 jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/UsernamePasswordCredentials.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpClient.java,v 1.98 2004/10/07 16:14:15 olegk Exp \$

\$

```

* $Revision: 509577 $
* $Date: 2007-02-20 15:28:18 +0100 (Tue, 20 Feb 2007) $
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Found in path(s):

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpClient.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HostConfiguration.java,v 1.23 2005/01/14 21:16:40
olegk Exp $

```

```

* $Revision: 510585 $
* $Date: 2007-02-22 17:52:16 +0100 (Thu, 22 Feb 2007) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/HostConfiguration.java
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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodDirector.java,v 1.34 2005/01/14 19:40:39
 olegk Exp \$
 * \$Revision: 486658 \$
 * \$Date: 2006-12-13 15:05:50 +0100 (Wed, 13 Dec 2006) \$
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```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpMethodDirector.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/BasicScheme.java,v 1.17 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/BasicScheme.java
```

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```
/*
```

```
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/PostMethod.java,v 1.58 2004/08/08 12:50:09
olegk Exp $
```

```
* $Revision: 480424 $
```

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* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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*/
```

Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/PostMethod.java
```

1.15 animal-sniffer-annotation 1.14

1.15.1 Available under license :

```
<!DOCTYPE html>
```

```
<html lang="en" dir="ltr">
```

```
<head profile="http://www.w3.org/1999/xhtml/vocab">
```

```

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/66" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="MobileOptimized" content="width" />
<title>The MIT License | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiyJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-business/css/ie8.css?ooglib" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
<script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery(document).ready(function($) {

```

```

$(window).scroll(function() {
  if($(this).scrollTop() != 0) {
    $("#toTop").fadeIn();
  } else {
    $("#toTop").fadeOut();
  }
});

$("#toTop").click(function() {
  $("body,html").animate({scrollTop:0},800);
});

});
//--><![]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKAK2siiZU.js"></script>
<script type="text/javascript">
<!--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{ "basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD3I9Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA","js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}},urlIsAjaxTrusted":{"\/licenses\/mit-
license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u002
7fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"windo
w_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":fa
lse,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extr
aWidth":1}}}}});
//--><![]]>
</script>
</head>
<body

```

```

class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div
id="block-menu-secondary-menu" class="block block-menu clearfix">

                <div class="content">
                  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
<!-- EOF:#header-top-left -->
</div>

                <div class="col-md-4">
          <!-- #header-top-right -->
          <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
              <div id="block-search-form" class="block block-search clearfix">

                <div class="content">
                  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
                    <h2 class="element-invisible">Search form</h2>
                    <div class="form-item form-type-textfield form-item-search-block-form">

```

```

<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
</div>
<!-- EOF:#header-top-right -->
</div>

</div>
</div>
<!-- EOF: #header-top-inside
-->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
<div class="container">

<!-- #header-inside -->
<div id="header-inside" class="clearfix">
<div class="row">
<div class="col-md-8">

<div id="logo">
<a href="/" title="Home" rel="home">  </a>
</div>

<div id="site-name">
<a href="/" title="Home">Open Source Initiative</a>
</div>

</div>

<div class="col-md-4">

```

```

        </div>
    </div>
</div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF:
#header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
    <div class="container">

        <!-- #main-navigation-inside -->
        <div id="main-navigation-inside" class="clearfix">
            <div class="row">
                <div class="col-md-12">
                    <nav role="navigation">
                        <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
    <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History
of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-
total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors"
class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board -
Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a
href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-
1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent
the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1"
class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI
incorporation record" class="sf-depth-3">Articles
of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-
3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a
href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-
1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2
menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li

```

id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines<li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Logo Guidelines<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">OSD - Annotated<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-

depth-3 sf-no-children">Affiliate
Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle
even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a
href="/community" title="Page
for our various community members." class="sf-depth-1 menuparent">Community<li id="menu-63-1"
class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a
href="/lists" title="The virtual committees where the OSI's work gets done" class="sf-depth-2
menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of
Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1"
class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/public_forums_disclaimer" class="sf-depth-
3">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-
children">Policy
on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2
sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1"
class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title="" class="sf-
depth-2">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5
sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources"
title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources<li id="menu-
342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions
about open source and about the OSI." class="sf-depth-2">FAQ<li id="menu-38-1" class="middle even sf-
item-2 sf-depth-2 sf-no-children">OSI Board
Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0
sf-single-children-2 menuparent"><a href="/help" title="Resources for questions and further exploration" class="sf-
depth-2 menuparent">Getting Help<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/links" title="Links and References to Open Source" class="sf-depth-
3">Bibliography<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a
href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses" class="sf-depth-
3">Open Source Case for Business<li id="menu-1514-1" class="middle even sf-item-4 sf-
depth-2 sf-no-children">Working Groups<li id="menu-
12-1" class="last odd sf-item-5 sf-depth-2
sf-no-children"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities" class="sf-depth-2">Open Source Education<li id="menu-1844-1" class="last even
sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news"
title="Page dedicated to the latest news and events." class="sf-depth-1 menuparent">News & Events<li
id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of
newsletters" class="sf-depth-2">Newsletters<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2
sf-no-children">Events </div>
</div>
</div>
</div>
</div>
</div>

```

        <!-- EOF: #main-navigation-inside -->

    </div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page"
class="clearfix">

    <!-- #main-content -->
    <div id="main-content">
        <div class="container">

            <!-- #messages-console -->
                <!-- EOF: #messages-console -->

            <div class="row">

                <section class="col-md-12">

                    <!-- #main -->
                    <div id="main" class="clearfix">

                        <!-- EOF:#content-wrapper -->
                        <div id="content-wrapper">

                            <h1 class="page-title">The MIT License</h1>

                                <!-- #tabs -->
                                    <div class="tabs">

                                        </div>
                                            <!-- EOF: #tabs -->

                                <!-- #action links -->
                                    <!-- EOF: #action links -->

                                    <div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

```

```
<div class="content">
  <article id="node-66" class="node node-page clearfix">
```

```
<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: MIT
</p>
```

```
<div align="right">
<button onclick="myFunction()">Further resources on the <b>MIT License</b></button>
```

```
<p id="demo"></p>
```

```
<script>
<!--><![CDATA[// ><!--
```

```
function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community,
it does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/mit-license style='font-weight: bold;*>The MIT License on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}
```

```
//--><![&]]>
</script></div>
```

```
<p>Copyright <YEAR> <COPYRIGHT HOLDER></p>
```

```
<p>Permission is hereby granted, free of charge, to any person obtaining a copy
```

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</div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">

<div class="container">

```

<!-- #subfooter-inside -->
<div id="subfooter-inside" class="clearfix">
  <div class="row">
    <div class="col-md-12">
      <!-- #subfooter-left -->
      <div class="subfooter-area">

          <div class="region region-footer">
<div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![>
</script></p>
</div>

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>

```

```

OpenSource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href=" ../ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>
      </div>
      <!-- EOF: #subfooter-left -->
    </div>
  </div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

1.16 netty 3.10.6.Final

1.16.1 Available under license :

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Version 2.1, February 1999

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1.18 slf4j 1.7.25

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1.19 zookeeper 3.4.6

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1.20 antlr 4.7

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Found in path(s):

- * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java
- * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
- * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/Tree.java
- * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-

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jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/Triple.java
*
/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/StarBlockStartState.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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jar/org/antlr/v4/runtime/atn/BlockEndState.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/ErrorNode.java

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*
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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 jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardAnywhereElement.java
 * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
 jar/org/antlr/v4/runtime/ProxyErrorListener.java
 * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
 jar/org/antlr/v4/runtime/atn/CodePointTransitions.java
 *
 /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
 jar/org/antlr/v4/runtime/misc/IntegerStack.java
 * /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-

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jar/org/antlr/v4/runtime/atn/SemanticContext.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathTokenElement.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/CodePointCharStream.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/EpsilonTransition.java
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/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/DecisionInfo.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/RuleContextWithAltNum.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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*
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jar/org/antlr/v4/runtime/misc/IntSet.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathRuleElement.java
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jar/org/antlr/v4/runtime/Recognizer.java
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jar/org/antlr/v4/runtime/misc/DoubleKeyMap.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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*
/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/CommonToken.java

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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/ATN.java

* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java

* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/misc/EqualityComparator.java

* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/LexerMoreAction.java

* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/LexerChannelAction.java

* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/Token.java

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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/OrderedHashSet.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-

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jar/org/antlr/v4/runtime/ANTLRErrorListener.java
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*
/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/BasicState.java
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 */
```

```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String
name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}
```

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1.26 failureaccess 1.0.1

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1.29 jul-to-slf4j 1.7.26

1.30 profiler 1.0.2

1.31 commons-compress 1.18

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1.33 jetty-client 9.4.18.v20190429

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1.42 zkclient 0.10

1.43 reflectasm 1.09

1.44 commons-pool 1.6

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```

Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/RuleFinder.java
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```
/* $Id: FinderFromDfltResource.java 471661 2006-11-06 08:09:25Z skitching $
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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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/* $Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/CircularIncludeException.java
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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltMethod.java

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```
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Found in path(s):

```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/SetRootRule.java
```

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```
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Found in path(s):

```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/substitution/VariableAttributes.java
```

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```
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Found in path(s):

```
*/opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/strategies/FinderFromResource.java
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```
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jar/org/apache/commons/digester/substitution/VariableExpander.java
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```

```
/* $Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/SimpleRegexMatcher.java

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/* \$Id: WithDefaultsRulesWrapper.java 471661 2006-11-06 08:09:25Z sketching \$

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jar/org/apache/commons/digester/WithDefaultsRulesWrapper.java

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/* \$Id: InitializableRule.java 471661 2006-11-06 08:09:25Z sketching \$

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```
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jar/org/apache/commons/digester/plugins/RulesFactory.java
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Found in path(s):

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jar/org/apache/commons/digester/parser/XercesParser.java

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/* \$Id: FinderFromClass.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java

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/* \$Id: XmlLoadException.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: FinderFromDfltClass.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: AbstractObjectCreationFactory.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/AbstractObjectCreationFactory.java
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/* \$Id: ExtendedBaseRules.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/ExtendedBaseRules.java
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/* \$Id: Rule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: ParserFeatureSetterFactory.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/ParserFeatureSetterFactory.java

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/* \$Id: SetPropertyRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/SetPropertiesRule.java

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jar/org/apache/commons/digester/plugins/strategies/FinderFromMethod.java

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/* \$Id: Declaration.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: Digester.java 480169 2006-11-28 19:37:36Z rahul \$

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```
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```
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```

Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-

jar/org/apache/commons/digester/plugins/PluginException.java

No license file was found, but licenses were detected in source scan.

```
/* $Id: VariableSubstitutor.java 471661 2006-11-06 08:09:25Z skitching $
```

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
```

```
jar/org/apache/commons/digester/substitution/VariableSubstitutor.java
```

No license file was found, but licenses were detected in source scan.

```
/* $Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl $
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```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
```

```
jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
```

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```
/* $Id: PathCallParamRule.java 471661 2006-11-06 08:09:25Z skitching $
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```
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jar/org/apache/commons/digester/PathCallParamRule.java
```

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Found in path(s):

```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/xmlrules/DigesterLoader.java
```

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```
/* $Id: DigesterRuleParser.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
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jar/org/apache/commons/digester/xmlrules/DigesterRuleParser.java
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```
/* $Id: BeanPropertySetterRule.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/BeanPropertySetterRule.java
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```
/* $Id: FactoryCreateRule.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/FactoryCreateRule.java

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/* \$Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching \$

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jar/org/apache/commons/digester/SetNestedPropertiesRule.java

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/* \$Id: RulesBase.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/RulesBase.java

No license file was found, but licenses were detected in source scan.

/* \$Id: PluginInvalidInputException.java 476205 2006-11-17 16:43:10Z dennisl \$

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/PluginInvalidInputException.java

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/* \$Id: RegexRules.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/RegexRules.java

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/* \$Id: LoaderFromStream.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

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jar/org/apache/commons/digester/plugins/strategies/LoaderFromStream.java

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/* \$Id: AbstractRulesImpl.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

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/* \$Id: SetNextRule.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/package.html
*
/opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/substitution/package.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/overview.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/strategies/package.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/parser/package.html
```

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/* $Id: DigesterRulesSource.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java
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/* \$Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/PluginAssertionFailure.java

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/* \$Id: RegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching \$

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jar/org/apache/commons/digester/ObjectCreateRule.java

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/* \$Id: PluginDeclarationRule.java 472837 2006-11-09 10:07:51Z skitching \$

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/* \$Id: LoaderSetProperties.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java
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17 20:00:50Z rahul \$

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jar/org/apache/commons/digester/package.html
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/* \$Id: SetTopRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: FromXmlRuleSet.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: Rules.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/Rules.java
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/* \$Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul \$

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/* \$Id: RuleLoader.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching \$

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```
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jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java  
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```
/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $  
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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-  
jar/org/apache/commons/digester/plugins/PluginConfigurationException.java  
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```

```
/* $Id: RuleSet.java 471661 2006-11-06 08:09:25Z skitching $  
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jar/org/apache/commons/digester/RuleSet.java

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```
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```
jar/org/apache/commons/digester/parser/GenericParser.java
```

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```
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```
jar/org/apache/commons/digester/RuleSetBase.java
```

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/strategies/FinderFromFile.java
```

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1.48 asm 4.0

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jar/javax/servlet/resources/j2ee_web_services_client_1_1.xsd
* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/j2ee_1_4.xsd
* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/jsp_2_0.xsd
```

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- * /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/javaee_5.xsd
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The textbook (containing a proof that the shuffle is uniformly random) is
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1.55 kryo 2.24.0

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

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```
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```

1.60 antlr-runtime 4.7.2

1.60.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/META-INF/maven/org.antlr/antlr4-runtime/pom.xml
```

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```
/*
```

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```
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/UnbufferedTokenStream.java
```

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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/TestRig.java
```

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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/NotNull.java
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*
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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
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 * /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/StarBlockStartState.java
 * /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java
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 * /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/TokensStartState.java
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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/EqualityComparator.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/ATNConfig.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/BailErrorStrategy.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
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/opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/MurmurHash.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/RangeTransition.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/IntegerStack.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/ANTLRInputStream.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LL1Analyzer.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/RuleNode.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
*
/opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/SingletonPredictionContext.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
*
/opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/LexerNoViableAltException.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LexerActionType.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/CommonTokenStream.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/IntervalSet.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/ParseCancellationException.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/ParserInterpreter.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathTokenElement.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java

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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/ParseTreeListener.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathRuleElement.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/LogManager.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardAnywhereElement.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathElement.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java

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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/Interval.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/misc/Triple.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/RuleStartState.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/CharStreams.java

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*

/opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LoopEndState.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathRuleAnywhereElement.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java

* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-

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jar/org/antlr/v4/runtime/atn/DecisionInfo.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/atn/BasicState.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/tree/IterativeParseTreeWalker.java
*
/opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/ConsoleErrorListener.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/TokenFactory.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/misc/Utils.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/LexerInterpreter.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
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* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
* /opt/cola/permits/1003993603_1651084856.54/0/antlr4-runtime-4-7-2-sources-
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jar/org/antlr/v4/runtime/atn/LexerModeAction.java
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1.61 bean-validation-api 2.0.1.Final

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1.64 jsr305 3.0.2

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1.66 coreutils 8.30-3ubuntu2

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man/bitstring.3bsd
man/errc.3bsd
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src/getbsize.c
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src/merge.c
src/nlist.c
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src/arc4random_uniform.c
src/arc4random_unix.h
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1.70 libxau 1.0.9-0ubuntu1

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1.72 dash 0.5.10.2-6

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in src/main/native/src/org/apache/hadoop/util:

```
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```

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```
/*
 LZ4 - Fast LZ compression algorithm
 Header File
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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

three errors found

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```

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1.80 antlr 4.7.1

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 jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg

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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {

package org.antlr.v4.parse;

import org.antlr.v4.tool.*;

import org.antlr.v4.tool.ast.*;

```

}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering
    (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: /*' ( options {greedy=false;} : . )* */' {delegate.text($text);}
;

LINE_COMMENT
: //' ~(\n|\r)* \r? \n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$ x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

```

```
QUALIFIED_ATTR
: '$ x=ID .' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;
```

```
SET_ATTR
: '$ x=ID WS? '=' expr=ATTR_VALUE_EXPR '
{
  delegate.setAttr($text, $x, $expr);
}
;
```

```
ATTR
: '$
x=ID {delegate.attr($text, $x);}
;
```

```
// Anything else is just random text
```

```
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~('\| '$) {buf.append((char)$c);}
| '\$' {buf.append('$);}
| '\ ' c=~('$) {buf.append('\').append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;
```

```
fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
```

```
/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
```

```
fragment
ATTR_VALUE_EXPR
: ~'=' (~';)*
;
```

```
fragment
WS : (' |\t|\n|\r')+
;
```

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```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 */

tree grammar SourceGenTriggers;

```
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
}
```

```
@header {
package organtlr.v4.codegen;
import organtlr.v4.misc.Utils;
import organtlr.v4.codegen.model.*;
import organtlr.v4.codegen.model.decl.*;
import organtlr.v4.tool.*;
import organtlr.v4.tool.ast.*;
import java.util.Collections;
import
  java.util.Map;
import java.util.HashMap;
}
```

```

@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
this(input);
this.controller = controller;
}
}

```

```

dummy : block[null, null] ;

```

```

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+)) ?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
Somos = DefaultOutputModelFactory.list(choice);
}
}
;

```

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

```

@init {
boolean outerMost = inContext("RULE BLOCK");
}
@after {
controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

```

```

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

```

@init {
// set alt if outer ALT only (the only ones with alt field set to Alternative object)
AltAST altAST = (AltAST)retval.start;
if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
List<SrcOp> elems = new ArrayList<SrcOp>();

```

```

// TODO: shouldn't we pass $start to controller.alternative()?
$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions?
EPSILON)
    {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

element returns [List<? extends SrcOp> omos]
: labeledElement    {$omos = $labeledElement.omos;}
| atom[null,false]  {$omos = $atom.omos;}
| subrule           {$omos = $subrule.omos;}
| ACTION           {$omos = controller.action((ActionAST)$ACTION);}
| SEMPRED           {$omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false]) {$omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null]) {$omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
    $omos = $block.omos;
}
| ( ^(op=CLOSURE
b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
    List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    SrcOp blk = $b.omos.get(0);
    CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
    alt.addOp(blk);
    alts.add(alt);
    SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(loop);
}

```

```

| block[null, null]   {$omos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT
a=atom[$label, true]) {$omos = $a.omos;}
| range[label]   {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)   {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD       {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL   {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos =
controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .)   {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF        {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;
```

```
elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
```

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```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/templates/depend.stg
```

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ANTLRParser.g

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ErrorType.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/semantics/AttributeChecks.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/decl/Decl.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/SerializedATN.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/LabeledOp.java

*

/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/OutputFile.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-

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jar/org/antlr/v4/tool/LabelElementPair.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/gui/TreeViewer.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/RuleElement.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/gui/Trees.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/semantics/UseDefAnalyzer.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/RangeAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/RetValRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ToolMessage.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/automata/ATNFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ScopeParser.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/ModelElement.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/OutputModelController.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/OutputModelWalker.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/LabelType.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/Recognizer.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/misc/CharSupport.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/Tool.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/automata/TailEpsilonRemover.java
*
/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/AltAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/TestSetInline.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ANTLRMessage.java

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 jar/org/antlr/v4/codegen/model/AltBlock.java
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 jar/org/antlr/v4/parse/GrammarASTAdaptor.java
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 jar/org/antlr/v4/parse/ToolANTLRParser.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/tool/ErrorSeverity.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/codegen/model/LexerFile.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/gui/TreePostScriptGenerator.java
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/codegen/target/SwiftTarget.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/automata/ATNOptimizer.java

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/tool/ast/SetAST.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/semantics/ActionSniffer.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
 jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/Rule.java
 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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 * /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-

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jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ast/TerminalAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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*
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/v3TreeGrammarException.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/misc/MutableInt.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/automata/ParserATNFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/Target.java

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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*
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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*
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/target/Python3Target.java
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 */

```
tree grammar BlockSetTransformer;
options {
  language    = Java;
  tokenVocab  = ANTLRParser;
  ASTLabelType = GrammarAST;
  output     = AST;
  filter     = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import
  java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;
```

```

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
;

blockSet
@init {
  boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}?
  // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
  elementOptions? setElement[inLexer]) )+ )
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
  "SET"] setElement+)))
  | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+ )
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
  CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
  | a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=> TOKEN_REF

```

```
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
  &&
  CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1 }?
)
```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;
```

```
elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/parse/BlockSetTransformer.g
```

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```
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/META-
INF/maven/org/antlr/antlr4/pom.xml
```

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/*
```

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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```

```
*/
```

```
/** Find left-recursive rules */
```

```
tree grammar LeftRecursiveRuleWalker;
```

```
options {
```

```
  tokenVocab=ANTLRParser;
```

```
  ASTLabelType=GrammarAST;
```

```
}
```

```
@header {
```

```
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
```

```
import org.antlr.v4.tool.*;
```

```
import org.antlr.v4.tool.ast.*;
```

```
}
```

```
@members {
```

```
private String ruleName;
```

```
private int currentOuterAltNumber; // which outer alt of rule?
```

```
public
```

```
  int numAlts; // how many alts for this rule total?
```

```
public void setAltAssoc(AltAST altTree, int alt) {}
```

```
public void binaryAlt(AltAST altTree, int alt) {}
```

```
public void prefixAlt(AltAST altTree, int alt) {}
```

```
public void suffixAlt(AltAST altTree, int alt) {}
```

```
public void otherAlt(AltAST altTree, int alt) {}
```

```
public void setReturnValues(GrammarAST t) {}
```

```
}
```

```
@rulecatch { }
```

```
// TODO: can get parser errors for not matching pattern; make them go away
```

```
public
```

```
  rec_rule returns [boolean isLeftRec]
```

```
  @init
```

```
  {
```

```
    currentOuterAltNumber = 1;
```

```
  }
```

```
  : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
```

```
    ruleModifier?
```

```
  // (ARG_ACTION)? shouldn't allow args, right?
```

```
    ^(RETURNS a=ARG_ACTION {setReturnValues($a;)}))?
```

```
  // (^(THROWS .+))?. don't allow
```

```
    (^(LOCALS ARG_ACTION))?. // TODO: copy these to gen'd code
```

```

    (^ (OPTIONS .*
    | ^ (AT ID ACTION) // TODO: copy
    )*)
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec; }
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^ (CATCH ARG_ACTION ACTION)
;

finallyClause
: ^ (FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init { boolean lr=false; this.numAlts = $start.getChildCount(); }
: ^ ( BLOCK
(
o=outerAlternative
{if ($o.isLeftRec) $isLeftRec = true;}
{currentOuterAltNumber++;}
)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>    binary
                {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>    prefix
                {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>    suffix
                {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

```

```

binary
: ^(
  ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  element+
  recurse epsilonElement*
  )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL      {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF          {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)

```

```
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

element

```
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;
```

epsilonElement

```
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;
```

setElement

```
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

ebnf: block

```
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

block

```
: ^(BLOCK ACTION? alternative+)
;
```

alternative

```
: ^(ALT elementOptions? element+)
;
```

atom

```
: ^(RULE_REF ARG_ACTION? elementOptions?)
```

```
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

*

/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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 */
```

```
tree grammar ATNBuilder;
```

```
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  // filter = true;
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}
```

```
@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}
```

```
dummy : block[null] ; // avoid error about no start rule
```

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*)?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
)
```

```

    )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^OPTIONS .*)? (a=alternative {alts.add($a.p);})+
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
    {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
    {
    $p = factory.alt(cmds);
    }
;

lexerCommand returns
[ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
    {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
    {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT
;

element returns [ATNFactory.Handle p]
: labeledElement    {$p = $labeledElement.p;}
| atom              {$p = $atom.p;}
| subrule           {$p = $subrule.p;}
| ACTION           {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED          {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .)      {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .)     {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet{true}) {$p = $b.p;}

```

```

| LEXER_CHAR_SET  {$p = factory.charSetLiteral($start);}
;

astOperand returns [ATNFactory.Handle p]
: atom    {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;

labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element)  {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
;

subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start])  {$p = $block.p;}
| ^(CLOSURE block[$start])  {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null]    {$p = $block.p;}
;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  | LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
: range    {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD  {$p = factory.wildcard($start);}
| blockSet[false] {$p
= $blockSet.p;}
| terminal  {$p = $terminal.p;}
| ruleref  {$p = $ruleref.p;}
;

```

```

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

```

```

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

```

```

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

elementOption
: ID
| ^(ASSIGN ID
ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

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```

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/gui/GraphicsSupport.java

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*/

// File : A3Lexer.g

// Author : Jim Idle (jimi@temporal-wave.com)

// Copyright : Free BSD - See @header clause below

// Version : First implemented as part of ANTLR 3.2 this is the self

// hosting ANTLR 3 Lexer.

//

// Description

// -----

```

// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
// derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
// for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
// that the lexer tries to defer error reporting to the parser, and the parser
// tries to defer error reporting to a semantic phase consisting of a single
// walk of the AST. The reason for this is that the error messages produced
// from later phases of the parse will generally have better context and so
// be more useful to the end user. Consider the message: "Syntax error at 'options'"
// vs: "You cannot specify two options{ }
// sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
* any actions, just build the tree.
*
* The phases are:
*
* A3Lexer.g (this file)
*     A3Parser.g
*     A3Verify.g (derived from A3Walker.g)
* assign.types.g
* define.g
* buildnfa.g
* antlr.print.g (optional)
* codegen.g
*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs

```

```

// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
// does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
// in this source and also the generated source
//
@lexer::header {
/*
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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or
```

```
subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
    if ( tokens==null ) return null;
```

```
    int i = tokens.index();
```

```
        int n = tokens.size();
```

```
        if ( i>=n ) i = n-1; // seems index == n as we lex
```

```
    while ( i>=0 && i<n ) {
```

```
        int ttype = tokens.get(i).getType();
```

```
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
```

```
            return tokens.get(i);
```

```
        }
```

```
        i--;
```

```
    }
```

```

return null;
}
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init
{

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

(
// Single line comment, possibly with embedded src/line directives
// in a similar style to the C pre-processor, allowing generated
// code to refer the programmer back to the original source code
// in case of error.
//
'/'
(
(' $ANTLR')=> ' $ANTLR' SRC
| ~(NLCHARS)*
)

| // Multi-line comment, which may be a documentation comment
// if it starts /** (note that we protect against accidentally

```

```

// recognizing a comment /**/ as a documentation comment
//
/** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
| { true }?=> // Required to cover all alts with predicates
)

// Should we support embedded multiline comments here?
//
(
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
)*
(
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error
message relative
    // to the start of the unterminated multi-line comment
    //
    /*'

| // Unterminated comment!
    //
    {
        // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
    }
)

| // There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment start
    //
}
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off

```

```

    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

ARG_OR_CHARSET
options {k=1;}
:
{isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
$type=ARG_ACTION;
// Set the token text to our gathered string minus outer [ ]
String t = $text;
t = t.substring(1,t.length()-1);
setText(t);
}
;

fragment
LEXER_CHAR_SET
: '['
  ('\w ~(\r|\n)
  | ~(\r|\n|\\|']')
  )*
  ']'
;

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ('"')=>ACTION_STRING_LITERAL

    | ('\')=>ACTION_CHAR_LITERAL

    | ~('[|']')
  )

```

```

    )*

    ]'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
//
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' {$type = SEMPRED;}
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we
// must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

```

```

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

```

```

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be
foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

```

```

// An embedded {} block
//
NESTED_ACTION

```

```

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

```

```

| // We have assumed that the target language has C/Java
// type comments.
//
COMMENT

```

```

| // What appears to be a literal
//
ACTION_STRING_LITERAL

```

```

| // What appears to be an escape sequence
//
ACTION_ESC

```

```

| // Some other single character that is not

```

```

        // handled above
        //
        ~(\\"|'|"|'|/|'{'|'})

    )*

(
    // Correctly balanced closing brace
    //
    '}'

| // Looks like have an imbalanced {} block, report
  // with respect to the opening brace.
  //
  {
    // TODO: Report imbalanced {}

    System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or is
missing a }");
  }
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS    : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS   : 'channels' WSNLCHARS* '{' ;

IMPORT     : 'import'           ;
FRAGMENT   : 'fragment'        ;
LEXER      : 'lexer'           ;
PARSER     : 'parser'          ;
GRAMMAR    : 'grammar'         ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED  : 'protected'
;
PUBLIC     : 'public'          ;
PRIVATE    : 'private'        ;
RETURNS    : 'returns'        ;

```

```

LOCALS    : 'locals'      ;
THROWS    : 'throws'     ;
CATCH     : 'catch'      ;
FINALLY   : 'finally'    ;
MODE      : 'mode'       ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON     : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF
) isLexerRule = false;
            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
        }
    }
;
COLONCOLON : '::'      ;
COMMA     : ','       ;
SEMI      : ';'       ;
LPAREN    : '('       ;
RPAREN    : ')'       ;
RARROW    : '->'     ;
LT        : '<'       ;
GT        : '>'       ;
ASSIGN    : '='       ;
QUESTION  : '?'       ;
SYNPRED   : '=>'
    {
        Token t = new CommonToken(input, state.type, state.channel,
            state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.V3_SYNPRED, t);
        $channel=HIDDEN;
    }

```

```

;
STAR    : '*'          ;
PLUS    : '+'          ;
PLUS_ASSIGN : '+='      ;
OR      : '|'          ;
DOLLAR  : '$'          ;
DOT      : '.'          ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE   : '..'         ;
AT       : '@'         ;
POUND   : '#'         ;
NOT     : '~'         ;
RBRACE  : '}'         ;

```

```
/** Allow unicode rule/token names */
```

```

ID : a=NameStartChar NameChar*
{
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
}
;

```

```
fragment
```

```

NameChar : NameStartChar
| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

```
fragment
```

```

NameStartChar
: 'A'..'Z' | 'a'..'z'
| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'
| '\u3001'..\uD7FF'
| '\uF900'..\uFDCF'
| '\uFDF0'..\uFEFE'
| '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

```
// -----
```

```

// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within
// these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: "\\" .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT :

```

```

('0'..'9')+
;

// -----
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
        // TODO: Add target specific code to change the source file name and current line number
        //
    }
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
: \" ( ( ESC_SEQ | ~(\"|'|\\"|'\\n') ) ) *
  ( \"
  | // Unterminated string literal
    {
        Token t = new CommonToken(input, state.type, state.channel,
state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.

```

```

//
fragment
ESC_SEQ
: '\\'
(
    // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|'\'|'\"'

    |// A Java style Unicode escape sequence
    UNICODE_ESC

    |// A Swift/Hack style Unicode escape sequence
    UNICODE_EXTENDED_ESC

    |// An illegal escape sequence
    ~(b|t|n|f|r|\'|\"|\\|u) // \x for any invalid x (make sure to match char here)
    {
        Token t = new CommonToken(input,
state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
    }
)
;

```

```

fragment
UNICODE_ESC
@init {

    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    int hCount = 0;
}

: 'u' // Leadin for unicode escape sequence

    // We now require 4 hex digits. Note though
    // that we accept any number of characters
    // and issue an error if we do not get 4. We cannot
    // use an infinite count such as + because this
    // might consume too many, so we lay out the lexical
    // options and issue an error at the invalid paths.
    //
    (
    (

```

```

    HEX_DIGIT { hCount++; }

(
    HEX_DIGIT { hCount++; }
    (
        HEX_DIGIT { hCount++; }
        (
            // Four valid hex digits, we are good
            //
            HEX_DIGIT { hCount++; }

            |// Three valid digits
        )

        |// Two valid digits
    )

    |// One valid digit
)
)
|// No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
    if (hCount < 4) {
        Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
        String lastChar = input.substring(badRange.b, badRange.b);
        if ( lastChar.codePointAt(0)=='\" ) {
            badRange.b--;
        }
        String bad = input.substring(badRange.a, badRange.b);
        Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE,
t, bad);
    }
}
;

fragment
UNICODE_EXTENDED_ESC
: 'u{' // Leadin for unicode extended escape sequence

    HEX_DIGIT+ // One or more hexadecimal digits

```

```

    }' // Leadout for unicode extended escape sequence

    // Now check the digit count and issue an error if we need to
    {
        int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
        if (numDigits > 6) {
            Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
        }
    }
;

// -----
//
Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ,
    | '\t'
    | '\r'
    | '\n'
    | '\f'
)+
{$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment

```

WSCHARS

```
: ' | \t | \f  
;
```

```
// A fragment rule for recognizing both traditional whitespace and  
// end of line markers, when we don't care to distinguish but don't  
// want any action code going on.
```

```
//
```

```
fragment
```

WSNLCHARS

```
: ' | \t | \f | \n | \r  
;
```

```
// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a  
// byte order mark. Since this Unicode character doesn't appear as a token  
// anywhere else in the grammar, we can simply skip all instances  
// of it without  
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or  
// STRING_LITERAL.
```

```
UnicodeBOM
```

```
: '\uFEFF' {skip();}  
;
```

```
// -----
```

```
// Illegal Character
```

```
//
```

```
// This is an illegal character trap which is always the last rule in the  
// lexer specification. It matches a single character of any value and being  
// the last rule in the file will match when no other rule knows what to do  
// about the character. It is reported as an error but is not passed on to the  
// parser. This means that the parser to deal with the gramamr file anyway  
// but we will not try to analyse or code generate from a file with lexical  
// errors.
```

```
//
```

```
ERRCHAR
```

```
: .  
{  
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);  
    t.setLine(state.tokenStartLine);  
    t.setText(state.text);  
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);  
    String msg = getTokenErrorDisplay(t)  
+ " came as a complete surprise to me";  
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);  
    state.syntaxErrors++;  
    skip();  
}
```

```
;
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ANTLR Lexer.g

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ANTLRParser.java

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ANTLR Lexer.java

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ATNBuilder.java

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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

* Parses trees created by ANTLRParser.g.

*

* Rather than have multiple tree grammars, one for each visit, I'm

* creating this generic visitor that knows about context. All of the

* boilerplate pattern recognition is done here. Then, subclasses can

* override the methods they care about.

```

This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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```

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```

*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;

```

```

}

@members
{
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if
        ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }

```

```

public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
ActionAST arg, ActionAST returns, GrammarAST thrws,
GrammarAST options, ActionAST locals,
List<GrammarAST> actions,
GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST
valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

```

```
protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }
```

```
protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }
```

```
protected void enterOptionValue(GrammarAST
tree) { }
protected void exitOptionValue(GrammarAST tree) { }
```

```
protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }
```

```
protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }
```

```
protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }
```

```
protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }
```

```
protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }
```

```
protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }
```

```
protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }
```

```
protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }
```

```
protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }
```

```
protected
void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }
```

```
protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }
```

```
protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }
```

protected void enterExceptionHandler(GrammarAST tree) { }

protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }

protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }

protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }

protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }

protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }

protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }

protected

void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }

protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }

protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }

protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }

protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }

protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }

protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }

protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }

protected

```
void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected
void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected
void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {

```

```

enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

```

prequelConstruct
@init
{
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
;

```

```

optionsSpec
@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

```

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ...");
}
@after {
exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
if ( block ) blockOption($ID, $v.start); // most specific first
else if ( rule ) ruleOption($ID, $v.start);
else grammarOption($ID, $v.start);
}

```

```

    }
    ;

optionValue returns [String v]
@init {
    enterOptionValue($start);
    $v = $start.token.getText();
}
@after {
    exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

delegateGrammars
@init {
    enterDelegateGrammars($start);
}
@after {
    exitDelegateGrammars($start);
}
: ^(IMPORT
delegateGrammar+)
;

delegateGrammar
@init {
    enterDelegateGrammar($start);
}
@after {
    exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;

tokensSpec
@init {
    enterTokensSpec($start);
}
@after {
    exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

```

```

tokenSpec
@init {
  enterTokenSpec($start);
}
@after {
  exitTokenSpec($start);
}
: ID {defineToken($ID);}
;

channelsSpec
@init {
  enterChannelsSpec($start);
}
@after {
  exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;

channelSpec
@init {
  enterChannelSpec($start);
}
@after {
  exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

action
@init {
  enterAction($start);
}
@after {
  exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
  enterRules($start);
}
@after {
  exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)*

```

```

{finishRules($RULES);}
;

mode
@init {
  enterMode($start);
}
@after {
  exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
  enterLexerRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  currentOuterAltNumber=0;
}
@after {
  exitLexerRule($start);
}
: ^( RULE TOKEN_REF
  {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
  (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
  {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
  lexerRuleBlock
  {
    finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
    currentRuleName=null; currentRuleAST=null;
  }
  )
;

rule
@init {
  enterRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
  currentOuterAltNumber=0;
}
@after {
  exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
currentRuleAST=$RULE;}
(^ (RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
ARG_ACTION?

```

```

ret=ruleReturns?
thr=throwsSpec?
loc=locals?
( opts=optionsSpec
| a=ruleAction {actions.add($a.start);}
)*
{discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
  $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
  $thr.start, $opts.start,
  $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
  actions, (GrammarAST)input.LT(1));}
ruleBlock exceptionGroup
{finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
@init {
enterExceptionGroup($start);
}
@after {
exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
enterExceptionHandler($start);
}
@after {
exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
(ActionAST)$ACTION);}
;

finallyClause
@init {
enterFinallyClause($start);
}
@after {
exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals

```

```
@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;
```

```
ruleReturns
@init {
  enterRuleReturns($start);
}
@after {
  exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;
```

```
throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}
: ^(THROWS ID+)
;
```

```
ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

```
ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
```

| PROTECTED

| FRAGMENT

;

lexerRuleBlock

@init {

enterLexerRuleBlock(\$start);

}

@after {

exitLexerRuleBlock(\$start);

}

: ^(BLOCK

({

currentOuterAltRoot = (GrammarAST)input.LT(1);

currentOuterAltNumber++;

}

lexerOuterAlternative

)+

)

;

ruleBlock

@init {

enterRuleBlock(\$start);

}

@after {

exitRuleBlock(\$start);

}

: ^(BLOCK

({

currentOuterAltRoot = (GrammarAST)input.LT(1);

currentOuterAltNumber++;

}

outerAlternative

)+

)

;

lexerOuterAlternative

@init {

enterLexerOuterAlternative((AltAST)\$start);

discoverOuterAlt((AltAST)\$start);

}

@after {

finishOuterAlt((AltAST)\$start);

exitLexerOuterAlternative((AltAST)\$start);

}

: lexerAlternative

;

outerAlternative

```
@init {
  enterOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitOuterAlternative((AltAST)$start);
}
: alternative
;
```

lexerAlternative

```
@init {
  enterLexerAlternative($start);
}
@after {
  exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
  | lexerElements
;
```

lexerElements

```
@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
: ^(ALT lexerElement+)
;
```

lexerElement

```
@init {
  enterLexerElement($start);
}
@after {
  exitLexerElement($start);
}
: labeledLexerElement
  | lexerAtom
  | lexerSubrule
  | ACTION    {actionInAlt((ActionAST)$ACTION);}
  | SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
;
```

```
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;
```

labeledLexerElement

```
@init {
  enterLabeledLexerElement($start);
}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;
```

lexerBlock

```
@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;
```

lexerAtom

```
@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;
```

actionElement

```
@init {
  enterActionElement($start);
}
@after
```

```

{
  exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

```

alternative

```

@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
  exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

```

lexerCommand

```

@init {
  enterLexerCommand($start);
}
@after {
  exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

```

lexerCommandExpr

```

@init {
  enterLexerCommandExpr($start);
}
@after {
  exitLexerCommandExpr($start);
}
: ID
| INT
;

```

element

```

@init {

```

```

enterElement($start);
}
@after {
exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
|
| ^ (ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^ (SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^ (NOT blockSet)
| ^ (NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
: atom
| ^ (NOT blockSet)
| ^ (NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
: ^ ((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
: ^ (blockSuffix block)

```

```

| block
;

lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
  enterAtom($start);
}
@after
{
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}

```

```

| terminal
| blockSet
| ruleref
;

blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
: ^(SET setElement+)
;

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

block
@init {
enterBlock($start);
}
@after {
exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION?
alternative+)
;

ruleref
@init {
enterRuleref($start);
}

```

```

}
@after {
  exitRuleRef($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
  if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

range
@init {
  enterRange($start);
}
@after {
  exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
  enterTerminal($start);
}
@after {
  exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
  enterElementOptions($start);
}
@after {
  exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
  enterElementOption($start);
}

```

```

}
@after
{
exitElementOption($start);
}
: ID      {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID)  {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION)  {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
;

```

Found in path(s):

`*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g`

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1.81 jetty 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2

licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.82 guava 26.0

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1.87 mongo-jackson-codec 3.2.2__0.5

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1.98 libxcb 1.14-2

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1.100 libpng 1.6.37-2

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1.103 java-jwt 3.9.0

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1.104 commons-lang3 2.6

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1.107 xorg 7.7+19ubuntu14

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.109 akka 2.4.20

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1.111 swagger-core 2.1.2

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Manifest-Version: 1.0

Automatic-Module-Name: io.swagger.v3.core

Bnd-LastModified: 1585747900398

Build-Jdk: 1.8.0_151

Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: swagger-core

Bundle-SymbolicName: io.swagger.core.v3.swagger-core

Bundle-Version: 2.1.2

Created-By: Apache Maven Bundle Plugin

Export-Package: io.swagger.v3.core.model;version="2.1.2",io.swagger.v3.core.filter;version="2.1.2";uses:="io.swagger.v3.core.model,io.swagger.v3.oas.models,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.parameters,io.swagger.v3.oas.models.responses",io.swagger.v3.core.jackson;version="2.1.2";uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.introspect,com.fasterxml.jackson.databind.jsontype,com.fasterxml.jackson.databind.module,com.fasterxml.jackson.databind.ser,io.swagger.v3.core.converter,io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.models,io.swagger.v3.oas.models.callbacks,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.responses,javax.xml.bind.annotation",io.swagger.v3.core.jackson.mixin;version="2.1.2";uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind.annotation,io.swagger.v3.core.jackson,io.swagger.v3.oas.models,io.swagger.v3.oas.models.callbacks,io.swagger.v3.oas.models.responses",io.swagger.v3.core.converter;version="2.1.2";uses:="com.fasterxml.jackson.annotation,io.swagger.v3.oas.models.media",io.swagger.v3.core.util;version="2.1.2";uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.core,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.introspect,com.fasterxml.jackson.databind.module,io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.headers,io.swagger.v3.oas.annotations.info,io.swagger.v3.oas.annotations.links,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.annotations.servers,io.swagger.v3.oas.annotations.tags,io.swagger.v3.oas.models,io.swagger.v3.oas.models.callbacks,io.swagger.v3.oas.models.examples,io.swagger.v3.oas.models.headers,io.swagger.v3.oas.models.info,io.swagger.v3.oas.models.links,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.parameters,io.swagger.v3.oas.models.respo

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nses,io.swagger.v3.oas.models.security,io.swagger.v3.oas.models.servers,io.swagger.v3.oas.models.tags,org.apache.commons.lang3.tuple"
implementation-version: 2.1.2
Import-Package: javax.validation.constraints;version="[1.1,3)",com.fasterxml.jackson.annotation;version="[2.10,3)",com.fasterxml.jackson.core;version="[2.10,3)",com.fasterxml.jackson.core.type;version="[2.10,3)",com.fasterxml.jackson.core.util;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3)",com.fasterxml.jackson.databind.annotation;version="[2.10,3)",com.fasterxml.jackson.databind.introspect;version="[2.10,3)",com.fasterxml.jackson.databind.jsontype;version="[2.10,3)",com.fasterxml.jackson.databind.module;version="[2.10,3)",com.fasterxml.jackson.databind.node;version="[2.10,3)",com.fasterxml.jackson.databind.ser;version="[2.10,3)",com.fasterxml.jackson.databind.type;version="[2.10,3)",com.fasterxml.jackson.databind.util;version="[2.10,3)",com.fasterxml.jackson.dataformat.yaml;version="[2.10,3)",com.fasterxml.jackson.datatype.jsr310;version="[2.10,3)",io.swagger.v3.core.converter;version="[2.1,3)",io.swagger.v3.core.jackson;version="[2.1,3)",io.swagger.v3.core.jackson.mixin;version="[2.1,3)",io.swagger.v3.core.model;version="[2.1,3)",io.swagger.v3.core.util;version="[2.1,3)",io.swagger.v3.oas.annotations;version="[2.1,3)",io.swagger.v3.oas.annotations.enums;version="[2.1,3)",io.swagger.v3.oas.annotations.extensions;version="[2.1,3)",io.swagger.v3.oas.annotations.headers;version="[2.1,3)",io.swagger.v3.oas.annotations.info;version="[2.1,3)",io.swagger.v3.oas.annotations.links;version="[2.1,3)",io.swagger.v3.oas.annotations.media;version="[2.1,3)",io.swagger.v3.oas.annotations.servers;version="[2.1,3)",io.swagger.v3.oas.annotations.tags;version="[2.1,3)",io.swagger.v3.oas.models;version="[2.1,3)",io.swagger.v3.oas.models.callbacks;version="[2.1,3)",io.swagger.v3.oas.models.examples;version="[2.1,3)",io.swagger.v3.oas.models.headers;version="[2.1,3)",io.swagger.v3.oas.models.info;version="[2.1,3)",io.swagger.v3.oas.models.links;version="[2.1,3)",io.swagger.v3.oas.models.media;version="[2.1,3)",io.swagger.v3.oas.models.parameters;version="[2.1,3)",io.swagger.v3.oas.models.responses;version="[2.1,3)",io.swagger.v3.oas.models.security;version="[2.1,3)",io.swagger.v3.oas.models.servers;version="[2.1,3)",io.swagger.v3.oas.models.tags;version="[2.1,3)",javax.xml.bind.annotation;version="[2.3,3)",org.apache.commons.lang3;version="[3.7,4)",org.apache.commons.lang3.math;version="[3.7,4)",org.apache.commons.lang3.text;version="[3.7,4)",org.apache.commons.lang3.tuple;version="[3.7,4)",org.slf4j;version="[1.7,2)"
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501
url: https://github.com/swagger-api/swagger-core/modules/swagger-core
```

Found in path(s):

* /opt/cola/permits/1069435236_1608181328.2/0/swagger-core-2-1-2-jar/META-INF/MANIFEST.MF

1.112 swagger 2.1.2

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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/internal/SwaggerJsonResource.java  
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/internal/SwaggerProvider.java  
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/SwaggerConfig.java  
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/internal/SwaggerModule.java  
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/internal/SwaggerPlugin.java  
*  
/opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/internal/SwaggerYamlResource.java  
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/BaseReaderListener.java  
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/internal/AbstractSwaggerResource.java
```

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-  
jar/org/seedstack/swagger/SwaggerConfig.properties
```

1.113 adduser 3.118ubuntu2

1.113.1 Available under license :

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<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian

Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph <sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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1.115 debianutils 4.9.1

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1.117 hostname 3.23

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1.118 acl 2.2.53-6

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1.125 cracklib 2.9.6-3.2

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a

clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

>> and see if he wants to relicense his code as LGPL... but at this

> point,

>> it was enough to just get it consistent and documented as to what

> it was

>> released under. This wasn't actually a license change, just a

>> clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

- > be using.
- > thus LGPL-2.1 enters to fill this void.
- > -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

- > Seems like the ideal thing here would be for you and the other distro
- > maintainers to get together with Alec in a conversation and come to a
- > decision as to what licensing scheme y'all want. I haven't really done
- > much other than cleaning up the packaging and patches and a small
- > bit of
- > additional code, so whatever licensing y'all come up with is fine
- > by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

- >> Seems like the ideal thing here would be for you and the other distro
- >> maintainers to get together with Alec in a conversation and come to a
- >> decision as to what licensing scheme y'all want. I haven't really done
- >> much other than cleaning up the packaging and patches and a small

>> bit of
>> additional
code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license

Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.126 libpwquality 1.4.2-1build1

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1.130 jackson-mapper-asl 1.9.13

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```
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-
```

1.131 libxi 1.7.10-0ubuntu1

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1.132 cdebconf 0.251ubuntu1

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1.133 bson 4.0.5

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```

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```
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonCodec.java
*
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jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/IdGenerators.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonCodecProvider.java
```

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```
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Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonSymbol.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/DiscriminatorLookup.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/RawBsonDocumentCodec.java
- *
- /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonValue.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/ObjectIdGenerator.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/annotations/BsonId.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/internal/Optional.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonObjectId.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonRegularExpression.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/CodeWithScope.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonStringConverter.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/SymbolCodec.java
- *
- /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/StringUtils.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/MaxKey.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/internal/ProvidersCodecRegistry.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/AbstractBsonReader.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/StrictJsonWriter.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellUndefinedConverter.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BasicBSONDecoder.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/DocumentCodec.java
- * /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
- *

/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonNullConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/MapCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/AtomicLongCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonReader.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/diagnostics/SLF4JLogger.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonMaximumSizeExceededException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/ByteArrayCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBoolean.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/internal/ChildCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/TypeData.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonTypeCodecMap.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonStreamBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/configuration/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonInt32Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/ByteBufferBsonInput.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/RawBsonDocument.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/ClassModelBuilder.java

* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/conversions/Bson.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/diagnostics/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BasicBSONEncoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/NoOpFieldNameValidator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BasicBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/jsr310/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonJavaScriptWithScope.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonDoubleCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonJavaScript.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/Either.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PropertyModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonReader.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonUndefinedConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PojoSpecializationHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/Symbol.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonStringBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/BsonInput.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/DateCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/LazyMissingCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/Code.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/internal/UuidHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonDocument.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/CollectibleCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonDocumentReader.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/Encoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBinaryWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/LazyPojoCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonUndefined.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBinaryWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonUndefinedCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonParseException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonInt32.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BSONCallback.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/DecoderContext.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonElement.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/Document.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/MinKey.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/UuidCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonToken.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/EncoderContext.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/BasicOutputBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellMaxKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MinKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BSONEncoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/CodecRegistries.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonScanner.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BSOException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/IdGenerator.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonBinaryCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonNumber.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoBuilderHelper.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MaxKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

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jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDbPointer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/ByteBuf.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonMode.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonSymbolCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/Bits.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonString.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonObjectIdCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ObjectIdCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonTimestamp.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/CreatorExecutable.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/CodeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDBPointerCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonBinarySubType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/Converter.java
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jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/util/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/Conventions.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonBooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ShortCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/io/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/diagnostics/Loggers.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellTimestampConverter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonInt64.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBinary.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonValueCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/ObjectId.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/IterableCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonBinaryReader.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonDecimal128Codec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/PatternCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/FloatCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonBooleanConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/assertions/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonDateTime.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/StringRangeSet.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PojoCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/LazyBSONDecoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/NumberCodecHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

jar/org/bson/EmptyBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BSONCallbackAdapter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDocumentWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/CharacterCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/LazyBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDecimal128.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/BasicBSONList.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/CodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/Decoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyMetadata.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyAccessorImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonDecimal128Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/IntegerCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonInt64Codec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/CodecCache.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BSONDecoder.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonDocumentWrapper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/CodeWithScopeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/package-
info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/CodeWScope.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BSONObject.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonNullCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonMaxKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonJavaScriptConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonInt32Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonTimestampCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonReaderMark.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/IterableCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/DoubleCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonDouble.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/Convention.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/AtomicBooleanCodec.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/LongCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/UuidCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/Base64.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/RawBsonValueHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/LazyBSONList.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/ByteBufNIO.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/diagnostics/NoOpLogger.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/FieldNameValidator.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonContextType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/types/Binary.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/UuidRepresentation.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/OutputBuffer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/CycleDetectingCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BigDecimalCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/JsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/LazyCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/DateTimeFormatter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/diagnostics/Logger.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDocumentWrapperCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonMaxKey.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonInvalidOperationException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/BsonOutput.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellObjectIdConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-

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jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonArrayCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonTypeClassMap.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/conversions/package-info.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/Decimal128Codec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/StringCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BasicBSONObject.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/StrictCharacterStreamJsonWriter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ByteCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/json/ShellInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/ClassModel.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonDocumentCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/util/Function.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/internal/CodecRegistryHelper.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/configuration/CodecProvider.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/ValueCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonMinKey.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/AbstractBsonWriter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/Decimal128.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonNull.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/BsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertyModel.java

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* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonSerializationException.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonSymbolConverter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/Transformer.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonStringCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/Codec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonJavaScriptCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellDecimal128Converter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/DocumentCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonInt32Codec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonMinKeyCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/AtomicIntegerCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BsonArray.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/InstanceCreator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BinaryCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/LazyBSONObject.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/BsonRegularExpressionCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/JsonTokenType.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellDateTimeConverter.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/json/ShellMinKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/RawBsonArray.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/codecs/pojo/package-info.java

```
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/io/BsonInputMark.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/MapCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/BsonValueCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/UuidCodecHelper.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/TypeParameterMap.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-jar/org/bson/BSON.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/types/BSONTimestamp.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/pojo/PropertySerialization.java
No license file was found, but licenses were detected in source scan.
```

```
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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
*
/opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/Js310CodecProvider.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
```

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```
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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/assertions/Assertions.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/util/CopyOnWriteMap.java
* /opt/ws_local/PERMITS_SQL/1088518906_1599801002.28/0/bson-4-0-5-sources-
jar/org/bson/util/AbstractCopyOnWriteMap.java
```

1.134 jctools-core 3.1.0

1.134.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```
  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
```

```

<version>${hamcrest.version}</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>${junit.version}</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>com.google.guava</groupId>
<artifactId>guava-testlib</artifactId>
<version>${guava-testlib.version}</version>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>3.0.0-M3</version>
<configuration>
<includes>
<include>*</include>
</includes>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<version>4.2.1</version>
<extensions>>true</extensions>
<configuration>
<instructions>
<Import-Package>sun.misc;resolution:=optional</Import-Package>
</instructions>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
<executions>
<execution>
<id>attach-sources</id>

```

```

    <phase>verify</phase>
    <goals>
      <goal>jar-no-fork</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/?publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

```

```
<scm>
<url>https://github.com/JCTools/JCTools</url>
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>

<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
<maven>3.5.0</maven>
</prerequisites>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-

INF/maven/org.jctools/jctools-core/pom.xml

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*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java

*

/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCLinkedQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java

*

/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/ConcurrentAutoTable.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/LinkedQueueNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingSetInt.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/QueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeAccess.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCGrowAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpSCLinkedListArrayQueue.java

1.135 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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1.136 quartz 2.1.1

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jar/org/quartz/plugins/xml/XMLSchedulingDataProcessorPlugin.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/xml/XMLSchedulingDataProcessor.java
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jar/org/quartz/listeners/BroadcastTriggerListener.java
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jar/org/quartz/listeners/BroadcastJobListener.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/listeners/JobChainingJobListener.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/UpdateLockRowSemaphore.java
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jar/org/quartz/utils/StringKeyDirtyFlagMap.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/listeners/JobListenerSupport.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/listeners/TriggerListenerSupport.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/listeners/SchedulerListenerSupport.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/TablePrefixAware.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java
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* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ListenerManager.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/CronScheduleBuilder.java

*

/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/Matcher.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobBuilder.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/ScheduleBuilder.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/PersistJobDataAfterExecution.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TriggerKey.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/impl/matchers/GroupMatcher.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/impl/matchers/EverythingMatcher.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/impl/matchers/StringMatcher.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobDetail.java

*

/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/impl/matchers/NotMatcher.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobExecutionContext.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/JobKey.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/MutableTrigger.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-

jar/org/quartz/ExecuteInJTATransaction.java

* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/DateBuilder.java

```
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/CronTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TimeOfDay.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/DisallowConcurrentExecution.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/SimpleTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/NameMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/KeyMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/DailyTimeIntervalScheduleBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/triggers/CoreTrigger.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/TriggerBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/SimpleScheduleBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/CalendarIntervalScheduleBuilder.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/DailyTimeIntervalTrigger.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/AndMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/matchers/OrMatcher.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/jdbcjobstore/DailyTimeIntervalTriggerPersistenceDelegate.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/CalendarIntervalTrigger.java
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* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/calendar/BaseCalendar.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/calendar/MonthlyCalendar.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/DirectSchedulerFactory.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utis/DirtyFlagMap.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/calendar/WeeklyCalendar.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/ee/servlet/QuartzInitializerServlet.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/spi/JobStore.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/core/JobRunShell.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/impl/StdSchedulerFactory.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/core/QuartzSchedulerThread.java
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jar/org/quartz/utis/counter/sampled/SampledCounter.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/utis/counter/CounterConfig.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/utis/counter/sampled/SampledRateCounterConfig.java
*
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/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/CounterManagerImpl.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/CircularLossyQueue.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/sampled/SampledCounterImpl.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/sampled/SampledCounterConfig.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/CounterManager.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/CounterImpl.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/Counter.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/sampled/SampledRateCounterImpl.java
*
/opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/sampled/SampledRateCounter.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/utils/counter/sampled/TimeStampedCounterValue.java
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jar/org/quartz/jobs/ee/jms/SendTopicMessageJob.java
* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-
jar/org/quartz/jobs/ee/jms/SendDestinationMessageJob.java

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* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/simpl/ThreadContextClassLoaderHelper.java
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* /opt/cola/permits/1103147594_1604019252.27/0/quartz-2-1-1-sources-2-jar/org/quartz/jobs/FileScanJob.java
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1.143 hamcrest-core 1.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.145 error_prone_annotations 2.1.3

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```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/CheckReturnValue.java
```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
```

```
*
 /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
```

```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/DoNotCall.java
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* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

*

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* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/ForOverride.java

*

/opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/concurrent/LazyInit.java

* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/RequiredModifiers.java

* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/Var.java

* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java

* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/CompileTimeConstant.java

* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-

jar/com/google/errorprone/annotations/Immutable.java
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jar/com/google/errorprone/annotations/RestrictedApi.java  
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/DoNotMock.java  
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/CompatibleWith.java  
*  
/opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/FormatMethod.java  
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/FormatString.java  
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/MustBeClosed.java
```

1.146 jackson-databind 2.11.4

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Version 2.1, February 1999

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1.154 shared-mime-info 1.15-1

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1.155 Isb 11.1.0ubuntu2

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1.156 libxcrypt 4.4.10-10ubuntu4

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1.157 sysv-init 2.96-2.1ubuntu1

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1.158 okhttp 3.14.9

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1.161 commons-logging 1.2

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jar/org/apache/commons/logging/impl/WeakHashtable.java

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jar/org/apache/commons/logging/package.html

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java

*

/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.162 commons-digester 1.8

1.162.1 Available under license :

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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/ObjectCreationFactory.java
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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/substitution/VariableAttributes.java
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/* \$Id: VariableExpander.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: CallParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/substitution/package.html
```

*

/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/parser/package.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/overview.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/package.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/package.html

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jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java
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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/parser/GenericParser.java

No license file was found, but licenses were detected in source scan.

```
/* $Id: SetPropertyRule.java 471661 2006-11-06 08:09:25Z skitching $
```

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-

jar/org/apache/commons/digester/SetPropertiesRule.java

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```
/* $Id: FinderFromDfltClass.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

```
jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java
```

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```
/* $Id: PluginCreateRule.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

```
jar/org/apache/commons/digester/plugins/PluginCreateRule.java
```

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```
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Found in path(s):

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jar/org/apache/commons/digester/Rule.java
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```
/* $Id: VariableSubstitutor.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/substitution/VariableSubstitutor.java
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```
/* $Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SimpleRegexMatcher.java
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```
/* $Id: PluginException.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginException.java
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```

```
/* $Id: MultiVariableExpander.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java

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/* \$Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching \$

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jar/org/apache/commons/digester/NodeCreateRule.java

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/* \$Id: RuleLoader.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/RuleLoader.java
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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SetNextRule.java
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```
/* $Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl $
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jar/org/apache/commons/digester/plugins/PluginAssertionFailure.java
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/* \$Id: SetPropertyRule.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SetPropertyRule.java
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/* \$Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java
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/* $Id: InitializableRule.java 471661 2006-11-06 08:09:25Z skitching $
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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/xmlrules/DigesterLoader.java
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/* \$Id: RulesFactory.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/RulesFactory.java
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/* \$Id: PathCallParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/PathCallParamRule.java
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/* \$Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl \$

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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
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/* \$Id: CallMethodRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: AbstractObjectCreationFactory.java 471661 2006-11-06 08:09:25Z sketching \$

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/* \$Id: PluginDeclarationRule.java 472837 2006-11-09 10:07:51Z sketching \$

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/* \$Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: XercesParser.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/Rules.java

No license file was found, but licenses were detected in source scan.

```
/* $Id: StackAction.java 476205 2006-11-17 16:43:10Z dennisl $
```

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-

jar/org/apache/commons/digester/StackAction.java

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```
/* $Id: LogUtils.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

```
jar/org/apache/commons/digester/plugins/LogUtils.java
```

No license file was found, but licenses were detected in source scan.

```
/* $Id: FinderFromClass.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

```
jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java
```

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```
/* $Id: ObjectCreateRule.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
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jar/org/apache/commons/digester/ObjectCreateRule.java
```

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```
/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
```

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```
/* $Id: RuleFinder.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/RuleFinder.java
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```
/* $Id: FinderSetProperties.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java
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```
/* $Id: AbstractRulesImpl.java 471661 2006-11-06 08:09:25Z skitching $
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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/AbstractRulesImpl.java

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/* \$Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul \$

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jar/org/apache/commons/digester/plugins/PluginContext.java

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/* \$Id: Substitutor.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/Substitutor.java

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17 20:00:50Z rahul \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/package.html

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/* \$Id: Digester.java 480169 2006-11-28 19:37:36Z rahul \$

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jar/org/apache/commons/digester/Digester.java

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/* \$Id: FinderFromResource.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderFromResource.java

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/* \$Id: WithDefaultsRulesWrapper.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/WithDefaultsRulesWrapper.java
No license file was found, but licenses were detected in source scan.

/* \$Id: PluginInvalidInputException.java 476205 2006-11-17 16:43:10Z dennisl \$

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No license file was found, but licenses were detected in source scan.

/* \$Id: LoaderSetProperties.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java
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/* \$Id: FactoryCreateRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/FactoryCreateRule.java
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/* \$Id: FinderFromMethod.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: DigesterRuleParser.java 471661 2006-11-06 08:09:25Z skitching \$
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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltMethod.java
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/* \$Id: ObjectParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java  
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```
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```
/* $Id: Declaration.java 471661 2006-11-06 08:09:25Z skitching $  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

jar/org/apache/commons/digester/plugins/Declaration.java

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```
/* $Id: XmlLoadException.java 471661 2006-11-06 08:09:25Z skitching $
```

```
*
```

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```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/xmlrules/XmlLoadException.java
```

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```
/* $Id: FromXmlRuleSet.java 471661 2006-11-06 08:09:25Z skitching $
```

```
*
```

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```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java
```

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```
/* $Id: PluginRules.java 471661 2006-11-06 08:09:25Z skitching $
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginRules.java
```

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```
/* $Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching $
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SetNestedPropertiesRule.java
```

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```
/* $Id: PluginManager.java 471661 2006-11-06 08:09:25Z skitching $
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```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginManager.java
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```

```
/* $Id: RegexRules.java 471661 2006-11-06 08:09:25Z skitching $
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*/
```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/RegexRules.java
```

1.163 stax 4.2.1

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1.164 commons-validator 1.7

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1.165 javassist 3.25.0-GA

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```
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```

Found in path(s):

```
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/MultiArrayType.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
```

```

jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/StackMapTable.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Loader.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AccessFlag.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ClassFilePrinter.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/AssignExpr.java

```

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassClassPath.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Bytecode.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Expr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstPool.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/InnerClassesAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TokenId.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/MemberResolver.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClassType.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Declarator.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/NoSuchClassError.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewMethod.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewConstructor.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/ControlFlow.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/RemoteRef.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Proxy.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/LoaderClassPath.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/StringL.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Descriptor.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Metaobject.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/CodeGen.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ArrayInit.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Frame.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/FieldInfo.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

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jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/SubroutineScanner.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMember.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPool.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Subroutine.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/DefinePackageHelper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Expr.java

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Modifier.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SyntaxError.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/framedump.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SignatureAttribute.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AnnotationsAttribute.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

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jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformNewClass.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMethod.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ClassFileWriter.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewArray.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Reflection.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/Transformer.java

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Cast.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformWriteField.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtBehavior.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SymbolTable.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/MultiType.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypedBlock.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Member.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewExpr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Desc.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/FactoryHelper.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/NewExpr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtConstructor.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/ObjectNotFoundException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Mnemonic.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/EnclosingMethodAttribute.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtArray.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/CompileError.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CannotCompileException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

jar/javassist/convert/TransformAfter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/analysis/Analyzer.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/ExceptionTable.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/tools/rmi/StubGenerator.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/compiler/ast/DoubleConst.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/CodeAnalyzer.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/compiler/ast/BinExpr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/analysis/Util.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/Proxy.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/analysis/Type.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/CtNewWrappedMethod.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/util/proxy/ProxyObjectInputStream.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/compiler/KeywordTable.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/NestMembersAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/InstructionPrinter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/LocalVariableAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/tools/reflect/CannotReflectException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/compiler/ast/CallExpr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/tools/reflect/Compiler.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/Dump.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/CodeIterator.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Instanceof.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/bytecode/AnnotationDefaultAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Inner.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
 jar/javassist/scopedpool/ScopedClassPoolFactory.java

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Opcodes.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/InstanceOfExpr.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/FieldAccess.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ByteMemberValue.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/FloatMemberValue.java
```

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.166 xz-java 1.8

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1.167 jakarta-annotation-api 1.3.5

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* <https://github.com/eclipse-ee4j/common-annotations-api>

##

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1.168 commons-logging 1.1.3

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1.169 jakarta-validation-api 2.0.2

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```

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
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jar/javax/validation/ConstraintValidatorContext.java  
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java

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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java
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1.170 asm 3.1

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jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/ASMContentHandler.java
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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/AbstractVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java

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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SmallSet.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierAbstractVisitor.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassAdapter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-

jar/org/objectweb/asm/tree/InnerClassNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-

jar/org/objectweb/asm/tree/analysis/BasicVerifier.java

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

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1.172 javassist 3.19.0-GA

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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
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/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
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 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/StackMap.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformAfter.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Stmnt.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
 *
 /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ConstantAttribute.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/FactoryHelper.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/ProxyFactory.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/Util.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/StubGenerator.java
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 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeData.java
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 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformReadField.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/runtime/Inner.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java
 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/web/Webserver.java
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 * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Compiler.java
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/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPool.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java
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/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/NewArray.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassMap.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtField.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/Loader.java
*
/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-

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jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/Handler.java
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/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/JvstTypeChecker.java
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/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/Cast.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/Javac.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
*
/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java

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1.181 hk2-utils 2.6.1

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1.183 resourcelocator 1.0.3

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1.184 jakarta-inject 2.6.1

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1.185 joda-time 2.10.1

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1.186 joda-time 2.10.2

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 - * Providing benchmark suite
- * Alec Wysoker
 - * Performance and memory usage improvement

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1.190 asm 6.0

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*/

/**

* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

* constructor*.* Instead, they must use the

* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

* version.

*

* @param mv

* the

method visitor to which this adapter delegates calls.

```
* @param access
*     the method's access flags (see { @link Opcodes }).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type Type }).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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```
/**
```

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```

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*/

/**

* Creates a new JSRInliner. *<i>*Subclasses must not use this

* constructor*</i>*. Instead, they must use the

* `{ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}`

* version.

*

* @param mv

*

the `MethodVisitor` to send the resulting inlined

* method code to (use `null` for none).

* @param access

* the method's access flags (see `{ @link Opcodes}`). This

* parameter also indicates if the method is synthetic and/or

* deprecated.

```

* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type}).
* @param signature
*     the method's signature. May be <tt>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     { @link Type#getInternalName() getInternalName}). May be
*     <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
- *
 - */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
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 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ParameterNode.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceModuleVisitor.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/MethodWriter.java
- *
 - */

/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/MethodVisitor.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InsnList.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicValue.java
*

/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/ClassRemapper.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java

```

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/StaticInitMerger.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/signature/SignatureVisitor.java
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/****

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```

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. Subclasses must
 * not use this constructor. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     null if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the first instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (exclusive). This
 *     array must have the same size as the 'start' array.
 * @param index
 *     the local variable's index in each range. This array must have
 *     the same size as the 'start' array.
 * @param desc
 *     the class descriptor of
the annotation class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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*/
```

Found in path(s):

```
*/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypePath.java
*/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypeReference.java
```

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- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXModuleAdapter.java
- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- *
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/Processor.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
 - * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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*/

/**

- * Creates a new { @link AnalyzerAdapter}. *Subclasses must not use this*
- * constructor*.* Instead, they must use the
- * { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
- * version.

*

- * @param owner

*

the owner's class name.

- * @param access

- * the method's access flags (see { @link Opcodes}).

- * @param name

- * the method's name.

- * @param desc

- * the method's descriptor (see { @link Type Type}).

- * @param mv

- * the method visitor to which this adapter delegates calls. May

- * be `<tt>null</tt>`.

- * @throws IllegalStateException

- * If a subclass calls this constructor.

*/

Found in path(s):

- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/

/**

* Constructs a new {@link Textifier}. *Subclasses must not use this*

* constructor*.* Instead, they must use the {@link #Textifier(int)}

* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/Textifier.java

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*/
/**
 * Constructs a new {@link ClassNode}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

```
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
```

1.191 commons-math 3.5

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).

The textbook (containing a proof that the shuffle is uniformly random) is available here:

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*/

/* checkTag : validation tool for libzstd

* command :

* \$./checkTag tag

* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any }

* The tag is then compared to zstd version number.

* They are compatible if first 3 digits are identical.

* Anything beyond that is free, and doesn't impact validation.

* Example : tag v1.8.1.2 is compatible with version 1.8.1

* When tag and version are not compatible, program exits with error code 1.

* When they are compatible, it exists with a code 0.

* checkTag is intended to be used in automated testing environment.

*/

1.193 libtasn 4.16.0-2

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Version 2.1, February 1999

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1.196 scala 2.12.7

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the

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or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

three errors found

```
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```

```
<div class="version-notice">This is the specification of a previous version of Scala. See the <a href="{ { site.baseurl } }/{ { site.latestScalaVersion } }/">Scala { { site.latestScalaVersion } } spec</a>.</div>
```

```
{% endif %}
```

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1.197 scala-reflect 2.12.7

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```
/** The entry point into Scala runtime reflection.
```

```
*
```

```
* To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
```

```
*
```

* See `[[scala.reflect.api.Universe]]` or the
* `[[http://docs.scala-lang.org/overviews/reflection/environment-universes-mirrors.html Reflection Guide: Universes]]`
* for more details.
*/

Found in path(s):

* `/opt/cola/permits/1148119227_1661245068.9201708/0/scala-reflect-2-12-7-sources-1-jar/scala/reflect/runtime/package.scala`

1.198 ubuntu-keyring 2020.02.11.4

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```
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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```
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
```

```
*
```

/opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

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* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

*

/opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/NameResolver.java

* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/package-info.java

* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

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```
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
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```
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/META-
INF/maven/io.netty/netty-resolver/pom.xml
```

1.200 netty-transport 4.1.63.Final

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```
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelFactory.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java

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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/AddressedEnvelope.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java

*

/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/group/ChannelMatchers.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ConnectTimeoutException.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/group/ChannelMatcher.java

*

/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/DefaultChannelId.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/group/ChannelGroup.java

```
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
*
```

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/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
*
```

```
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
```

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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java

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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-

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jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/group/package-info.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/FailedChannelFuture.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ChannelPromise.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/nio/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/package-info.java
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/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/FixedRecvByteBufferAllocator.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-

jar/io/netty/channel/ChannelOption.java
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/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultChannelPipeline.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelFuture.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
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jar/io/netty/channel/AbstractChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/DatagramChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/oio/AbstractOioChannel.java

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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
*
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jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/MultithreadEventLoopGroup.java
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jar/io/netty/channel/Channel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-

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jar/io/netty/bootstrap/package-info.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelMetadata.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelException.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/SingleThreadEventLoop.java

```
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/ServerSocketChannel.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/nio/AbstractNioMessageChannel.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/local/LocalServerChannel.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
jar/io/netty/channel/ExtendedClosedChannelException.java
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*/

/**

* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.

*

* <h3>Sub-types</h3>

* <p>

* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:

*

* { @link

ChannelInboundHandler } to handle inbound I/O events, and

* { @link ChannelOutboundHandler } to handle outbound I/O operations.

*

* </p>

* <p>

* Alternatively, the following adapter classes are provided for your convenience:

*

* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,

* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and

* { @link ChannelDuplexHandler } to handle both inbound and outbound events

*

* </p>

* <p>

* For more information, please refer to the documentation of each subtype.

```

* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt;Message &gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.

```

```

* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
*
* ...
* }
* </pre>
*
* Now that the
* state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {

```

```

*
* private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
* }
* }
* </pre>
*
*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
* a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

*/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/channel/DefaultChannelHandlerContext.java
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jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
*
/opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

1.201 netty-codec 4.1.63.Final

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jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
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jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-

jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
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/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
*

/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/string/package-info.java
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/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
*

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/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*

/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
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- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
- *
- /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/json/package-info.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
- *
- /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
- *
- /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
- * /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java

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* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
*
/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
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jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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* Base64 Encoder/Decoder</a>.
*/
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```
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
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*/
/**
 * Utility class for { @link ByteBuf } that encodes and decodes to and from
 * Base64 notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */
```

Found in path(s):

```
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
```

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 */
/**
 * A decoder that splits the received { @link ByteBuf }s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * { @link LengthFieldBasedFrameDecoder } has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
```

* length field. Therefore, it can be decoded with the simplistic parameter combination.

* <pre>

* lengthFieldOffset = 0

* lengthFieldLength = 2

* lengthAdjustment = 0

* initialBytesToStrip = 0 (= do not strip header)

*

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

* +-----+-----+ +-----+-----+

* | Length | Actual Content

|---->| Length | Actual Content |

* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |

* +-----+-----+ +-----+-----+

* </pre>

*

* <h3>2 bytes length field at offset 0, strip header</h3>

*

* Because we can get the length of the content by calling

* { @link ByteBuf#readableBytes() }, you might want to strip the length

* field by specifying <tt>initialBytesToStrip</tt>. In this example, we

* specified <tt>2</tt>, that is same with the length of the length field, to

* strip the first two bytes.

* <pre>

* lengthFieldOffset = 0

* lengthFieldLength = 2

* lengthAdjustment = 0

* initialBytesToStrip = 2 (= the length of the Length field)

*

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

* +-----+-----+ +-----+-----+

* | Length | Actual Content |---->| Actual Content |

* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |

* +-----+-----+ +-----+-----+

* </pre>

*

* <h3>2 bytes length field at offset 0, do not strip header, the length field

* represents the length of the whole message</h3>

*

* In most cases, the length field represents the length of the message body

* only, as shown in the previous examples. However, in some protocols, the

* length field represents the length of the whole message, including the

* message header. In such a case, we specify a non-zero

* <tt>lengthAdjustment</tt>. Because the length value in this example message

* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>

* as <tt>lengthAdjustment</tt> for compensation.

* <pre>

* lengthFieldOffset = 0

```

* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |----->| Length | Actual
Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
| 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,

```

WORLD" |

```
* +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
* </pre>
```

*

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,

* strip the first header field and the length field</h3>

*

* This is a combination of all the examples above. There are the prepended

* header before the length field and the extra header after the length field.

* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra

* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero

* <tt>initialBytesToStrip</tt> to strip the length field and the prepended

* header from the frame. If you don't want to strip the prepended header, you

* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```
* <pre>
```

```
* lengthFieldOffset = 1 (= the length of HDR1)
```

```
* lengthFieldLength = 2
```

```
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
```

```
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +  
LEN)
```

*

```
* BEFORE DECODE (16 bytes)                AFTER DECODE (13 bytes)
```

```
* +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
```

```
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
```

```
* +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
* </pre>
```

*

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,

* strip the first header field and the length field, the length field

* represents the length of the whole message</h3>

*

* Let's give another twist to the previous example. The only difference from

* the previous example is that the length field represents the length of the

* whole message instead of the message body, just like the third example.

* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.

* Please note that we don't need to take the length of HDR2 into account

* because

the length field already includes the whole header length.

```
* <pre>
```

```
* lengthFieldOffset = 1
```

```
* lengthFieldLength = 2
```

```
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
```

```
* <b>initialBytesToStrip</b> = <b>3</b>
```

*

```
* BEFORE DECODE (16 bytes)                AFTER DECODE (13 bytes)
```

```
* +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
```

```
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+-----+
* </pre>
* @see LengthFieldPrepender
*/
```

Found in path(s):

```
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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```
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/Headers.java
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* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io.netty.handler.codec.compression/Lz4XXHash32.java

1.202 netty 4.1.63.Final

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/PlatformDependent0.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ResourceLeakException.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java

```

*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/RecyclableArrayList.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/FutureListener.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/MemcacheMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
*

```

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/ThreadPoolExecutor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/package-info.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpcodes.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/PendingWrite.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/AbstractDerivedByteBuf.java
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jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/Promise.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ConstantPool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/ByteBufProcessor.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/ReferenceCounted.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java
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jar/io/netty/channel/udt/UdtChannelOption.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/FullHttpResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cors/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/ConcurrentSet.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
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jar/io/netty/example/worldclock/WorldClockProtocol.java
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jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java
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jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
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jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
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jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/Future.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
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jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/EmptyByteBuf.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
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jar/io/netty/handler/codec/socks/v5/Socks5PasswordAuthStatus.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/EmptyArrays.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyVersion.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ResourceLeak.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Recycler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/ByteBufHolder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

```

jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
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*/

/**

* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.

*

* <h3>Sub-types</h3>

* <p>

* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:

*

* { @link

ChannelInboundHandler } to handle inbound I/O events, and

* { @link ChannelOutboundHandler } to handle outbound I/O operations.

*

* </p>

* <p>

* Alternatively, the following adapter classes are provided for your convenience:

*

* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,

* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and

```

* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to

```

* one connection, you have to create a new handler instance for each new
 * channel to avoid a race condition where a unauthenticated client can get
 * the confidential information:

```
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
*   { @code @Override}
*   public void initChannel({ @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
*
* </pre>
```

* <h4>Using { @link AttributeKey}s</h4>

* Although it's recommended to use member variables to store the state of a
 * handler, for some reason you might not want to create many handler instances.
 * In such a case, you can use { @link AttributeKey}s which is provided by
 * { @link ChannelHandlerContext}:

```
* <pre>
* public interface Message {
*   // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;&gt;Message&gt; {
*   private final { @link AttributeKey}&lt;&gt;{ @link Boolean}&gt; auth =
*     { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*   { @code @Override}
*   public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*     { @link Attribute}&lt;&gt;{ @link Boolean}&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) o);
*       <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*       if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*       } else {
*         fail();
*       }
*     }
*   }
* }
* ...
* }
* </pre>
```

* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
```

* <h4>The { @code @Sharable} annotation</h4>

* <p>

* In the example above which used an { @link AttributeKey}, you might have noticed the { @code @Sharable} annotation.

* <p>

* If a { @link ChannelHandler} is annotated with the { @code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline}s multiple times without a race condition.

* <p>

* If this annotation is not specified, you have to create a new handler

* instance every time you add it to a pipeline because it has unshared state such as member variables.

* <p>

* This annotation is provided for documentation purpose, just like the JCIP annotations.

*

* <h3>Additional resources worth reading</h3>

* <p>

* Please refer to the { @link ChannelHandler}, and { @link ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

*/

Found in path(s):

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java
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- * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLContext.java
- * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/Buffer.java
- * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/Library.java

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- * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

```
jar/io/netty/util/internal/MathUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ByteProcessor.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
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jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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jar/io/netty/channel/DefaultChannelHandlerContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/CleanerJava6.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/FastThreadLocalThread.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompSubscription.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketFrameEncoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompVersion.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/dns/tcp/TcpDnsClient.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2PriorityFrame.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/SizeClassesMetric.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketChatServerInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/SizeClasses.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/dns/dot/DoTClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/NetUtilSubstitutions.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/LongPriorityQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketProtocolCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubAckPayload.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/LongLongHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/haproxy/HAProxyClient.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketClientPageHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/dns/udp/DnsClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketChatServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/haproxy/HAProxyServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscriptionOption.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttProperties.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PriorityFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubReplyMessageVariableHeader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/websocket/StompChatHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2PushPromiseFrame.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/NetUtilInitializations.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdAndPropertiesVariableHeader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttReasonCodeAndPropertiesVariableHeader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PushPromiseFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/haproxy/HAProxyHandler.java
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```
*/
/**
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
/**
 * Set the { @code TCP_QUICKACK } option on the socket.
 * See <a href="https://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
*/
```

Found in path(s):

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
```

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
```

```
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/uptime/UptimeServerHandler.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/HostsFileEntries.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
```

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/PriorityQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageBuilders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/uptime/UptimeServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/SuppressForbidden.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2StreamChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/DnsCacheEntry.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
  Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codecs/base64/Base64Dialect.java
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jar/io/netty/internal/tcnative/CertificateCallback.java
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*/
/**
* Utility class for { @link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* http://iharder.sourceforge.net/current/java/base64/Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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*/
```

Found in path(s):

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/telnet/TelnetClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/DefaultAttributeMap.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/telnet/TelnetClientInitializer.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/websocketx/server/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/sctp/SctpEchoClientHandler.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Attribute.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelException.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/SwappedByteBuf.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/EventLoopException.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelFutureListener.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/nio/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelPipelineException.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/qotm/QuoteOfTheMomentClient.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/factorial/FactorialClientHandler.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/securechat/SecureChatClient.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/upload/HttpUploadClientHandler.java

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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerHandler.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/buffer/UnpooledHeapByteBuf.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/channel/oio/AbstractOioMessageChannel.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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 jar/io/netty/example/worldclock/WorldClockClient.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerTwo.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/channel/ChannelPipeline.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/channel/RecvByteBufAllocator.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/example/http/cors/HttpCorsServer.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/buffer/ByteBufOutputStream.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/example/udt/echo/message/MsgEchoClient.java
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 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/handler/codecs/http/CookieDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
 jar/io/netty/channel/FileRegion.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/CodecException.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerTwo.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/websocketx/server/WebSocketServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/factorial/FactorialServerInitializer.java
*
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpClientCodec.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PoolSubpage.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/EventLoopGroup.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/message/MsgEchoServer.java
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 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/EncoderException.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/bytes/ByteEchoClient.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/discard/DiscardServer.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/TimerTask.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/CompositeByteBuf.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/UdtChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/SlicedByteBuf.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/package-
info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/PoolThreadCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerOne.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksResponse.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/echo/EchoServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/worldclock/WorldClockClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultChannelConfig.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/SystemPropertyUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PoolArena.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/objectecho/ObjectEchoClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpObjectEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/factorial/FactorialClientInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/file/HttpStaticFileServerInitializer.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultCookie.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/localecho/LocalEcho.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/PooledDirectByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/StringUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/upload/HttpUploadServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/package-info.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpServerCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/factorial/FactorialServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/rendezvous/Config.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspMethods.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ThreadPerChannelEventLoop.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/AbstractConstant.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspVersions.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpMethod.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/oio/AbstractOioChannel.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/factorial/FactorialServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/upload/HttpUploadServerHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/Channel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/snoop/HttpSnoopServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/localecho/LocalEchoClientHandler.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/HashedWheelTimer.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/group/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpVersion.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelInitializer.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/proxy/HexDumpProxy.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/snoop/HttpSnoopClient.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/factorial/FactorialClient.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/proxy/HexDumpProxyFrontendHandler.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/package-info.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/securechat/SecureChatClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/file/HttpStaticFileServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/file/FileServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelMetadata.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/telnet/TelnetServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/objectecho/ObjectEchoServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/echo/EchoClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/socksproxy/SocksServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/sctp/SctpEchoServer.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/echo/EchoServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/upload/HttpUploadClientInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/bytes/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpResponseStatus.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/IllegalReferenceCountException.java
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jar/io/netty/handler/codec/socks/SocksMessage.java
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jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/upload/HttpUploadServerInitializer.java
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jar/io/netty/handler/codec/ByteToMessageDecoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/LastHttpContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/UnpooledDirectByteBuf.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/Attribute.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/nio/package-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/snoop/HttpSnoopServer.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/embedded/package-info.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/proxy/HexDumpProxyInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/AbstractServerChannel.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/AttributeKey.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/ByteBuf.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
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jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/local/package-
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jar/io/netty/example/http/upload/HttpUploadClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/worldclock/WorldClockServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpResponse.java
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jar/io/netty/handler/codec/socks/v5/Socks5PasswordAuthRequest.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/PoolChunkList.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpObject.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/v5/Socks5CommandRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/DefaultUdtChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/buffer/PooledByteBuf.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/telnet/TelnetServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/local/LocalChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Timer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/ByteBufAllocator.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/websocketx/server/WebSocketServerInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/discard/DiscardClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/rendezvous/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/oio/AbstractOioByteChannel.java
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
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jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Timeout.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/worldclock/WorldClockServerInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java
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jar/io/netty/handler/codec/socks/SocksMessageEncoder.java

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jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
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jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PoolChunk.java
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jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
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jar/io/netty/buffer/AbstractByteBuf.java
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jar/io/netty/channel/sctp/oio/OioSctpChannel.java
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jar/io/netty/example/discard/DiscardClientHandler.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
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jar/io/netty/example/worldclock/WorldClockClientInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
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jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/bootstrap/package-
info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codecs/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codecs/serialization/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Constant.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/socksproxy/RelayHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/Signal.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codecs/rtsp/RtspResponseEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codecs/ByteToMessageCodec.java
No license file was found, but licenses were detected in source scan.
```

```
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```

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* under the License.
```

```
*/
```

```
/**
```

```
* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
```

Found in path(s):

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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*/

Found in path(s):

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtResponse.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/Native.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/PemValue.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2StreamFrame.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsCache.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2WindowUpdateFrame.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/package-info.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequests.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/smtp/SmtpCommand.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameStreamException.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyTLV.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/flow/package-
info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/redis/RedisClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameCodec.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/Log4J2Logger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2ServerInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/SmtpContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ResetFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuffer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2Server.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/NoopDnsCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/DateFormatter.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2StreamFrameToHttpObjectCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Frame.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/flush/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/kqueue/KQueue.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponse.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
*
```

```
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
```

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/collection/CharCollections.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Connection.java
```

```
*
```

```
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameWriter.java
```

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
```

```
*
```

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/ObjectUtil.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/server/Http2OrHttpHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FlowController.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/client/Http2Client.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Stream.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2EventAdapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttQoS.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Exception.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2DataWriter.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/client/Http2SettingsHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameTypes.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Error.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2CodecUtil.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2LocalFlowController.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2LifecycleManager.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/LongCollections.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/Http2ExampleUtil.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2RemoteFlowController.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/ByteCollections.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Flags.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
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 */
/**
 * A decoder that splits the received {@link ByteBuffer}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * { @link LengthFieldBasedFrameDecoder } has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * <b>lengthFieldOffset</b> = <b>0</b>
 * <b>lengthFieldLength</b> = <b>2</b>
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
 * +-----+-----+ +-----+-----+
 * | Length | Actual Content
 * |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-----+-----+ +-----+-----+
 * </pre>
 *
 */

```

```

* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero

```

* again because the decoder always takes the length of the prepended data into account during frame length calculation.

```

* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |    | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |    | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)

```

```

* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/JdkLogger.java
*
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/Log4JLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/InternalLogger.java

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
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jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cors/CorsConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/cors/OkResponseHandler.java

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jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/ErrorRedisMessage.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecUtil.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecException.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisMessagePool.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/handler/codec/redis/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/redis/RedisClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisMessageType.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/SearchProcessor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/MultiSearchProcessor.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/package-info.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/IPPacket.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/TCPHeader.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/handler/pcap/PcapWriter.java

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jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/internal/tcnative/CertificateVerifierTask.java

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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java

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jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/internal/tcnative/SSLTask.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/internal/tcnative/CertificateCallbackTask.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java

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jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/internal/tcnative/SessionTicketKey.java

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jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/macos/DnsResolver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/ThreadExecutorMap.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/MaxCapacityQueue.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/address/DynamicAddressConnectHandler.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/TcpDnsQueryContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/ObjectPool.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/macos/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/package-info.java

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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/HeapByteBufUtil.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/pool/package-info.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2HandlerBuilder.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/tiles/Http2Server.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PoolArenaMetric.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/tiles/FallbackRequestHandler.java
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jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DnsRecord.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/UnpooledSlicedByteBuf.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/HashingStrategy.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
 *
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/LongCounter.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
 *
 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
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jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
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jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
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jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpChannel.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpServerChannel.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
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jar/io/netty/internal/tcnative/SniHostNameMatcher.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/ocsp/OcspRequestBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/ocsp/Digester.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
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jar/io/netty/util/internal/Cleaner.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/CleanerJava9.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HpackStaticTable.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HpackEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HpackDynamicTable.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java

```

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/UdtServerChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/sctp/SctpChannelOption.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/package-
info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelConfig.java
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// <https://tools.ietf.org/html/rfc7540#section-8.1.2.2> makes a special exception for TE

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

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```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.
java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/xml/XmlEntityReference.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/spdy/server/SpdyServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/spdy/client/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/package-
info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribePayload.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameLogger.java
```

```

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/stomp/StompCommand.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2SecurityUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/haproxy/HaproxyCommand.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/mqtt/MqttDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/example/stomp/StompClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/xml/XMLComment.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/mqtt/MqttVersion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframe.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/xml/XMLDecoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/xml/XmlCdata.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/xml/XmlDTD.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/proxy/package-info.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerBenchmarkPage.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslUtils.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckMessage.java

*

/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/xml/XmlDocumentStart.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/stomp/StompFrame.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/spdy/client/SpdyFrameLogger.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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jar/io/netty/channel/unix/Unix.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/channel/ReflectiveChannelFactory.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/spdy/server/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/spdy/client/HttpResponseClientHandler.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/xml/XmlSpace.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/spdy/client/SpdyClient.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/IntegerHolder.java
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 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java
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 /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/stomp/StompClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
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 * /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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// Try the OpenJDK's proprietary implementation.

Found in path(s):

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-

jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/sctp/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
*
/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/UdtChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/PooledHeapByteBuf.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLSessionCache.java

* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLSession.java

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Found in path(s):

```
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-  
jar/io/netty/internal/tcnative/CertificateVerifier.java
```

1.203 netty-handler 4.1.63.Final

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```
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
*
```

```
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
```

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ipfilter/package-info.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java

*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java

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*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SniHandler.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java

*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslUtils.java

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/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-

jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemReader.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSsl.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
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```
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
```

jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/package-info.java
*

```
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriter.java  
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/UDPPacket.java  
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/flow/FlowControlHandler.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/package-info.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/logging/package-info.java

*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java

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```
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java

*

/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java

* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-

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jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
*
/opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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1.205 commons-lang3 3.3.2

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1.206 commons-cli 1.3.1

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```
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 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

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`/opt/cola/permits/1152084220_1618069402.1/0/bcpkix-fips-1-0-5-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java`

1.208 jaeger-core 1.5.0

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/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/RemoteBaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/BaggageRestrictionManagerProxy.java
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Found in path(s):

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Codec.java

```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/InMemoryMetricsFactory.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/NoopMetricsFactory.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/spi/MetricsFactory.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/propagation/CompositeCodec.java
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```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/RateLimitingSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/ConstSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/utils/Http.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/UnsupportedFormatException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/SamplingStatus.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/EmptyIpException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/SamplingStrategyErrorException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Extractor.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/RemoteControlledSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/NoopReporter.java
*
```

```

/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/LogData.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Metric.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/MalformedTracerStateStringException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/SamplingStrategyResponse.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Injector.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/ProbabilisticSamplingStrategy.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Gauge.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Tag.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/HttpSamplingManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/PerOperationSamplingParameters.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/InMemoryReporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/PerOperationSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/spi/SamplingManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/propagation/PrefixedKeys.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/utils/Utils.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/CompositeReporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/GuaranteedThroughputSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Reporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Timer.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Counter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/OperationSamplingParameters.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/LoggingReporter.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/Constants.java

```

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/RateLimitingSamplingStrategy.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sender.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Metrics.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/SystemClock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/ProbabilisticSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/Clock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/EmptyTracerStateStringException.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/SenderException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/utils/RateLimiter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/NotFourOctetsException.java
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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/B3TextMapCodec.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/package-info.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSenderFactory.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/TraceIdOutOfBoundException.java
*
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerObjectFactory.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSender.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SenderFactory.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/PropagationRegistry.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/SenderResolver.java

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jar/io/jaegertracing/internal/propagation/TraceContextCodec.java
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```

Found in path(s):

```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/JaegerSpan.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/JaegerTracer.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/propagation/TextMapCodec.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/Configuration.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/JaegerSpanContext.java
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```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/clock/MillisAccurateClock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/MDCScopeManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/clock/MicrosAccurateClock.java
```

1.209 scala-compiler 2.12.7

1.209.1 Available under license :

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```
/*!
* jQuery Mousewheel 3.1.13
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/doc/html/resource/lib/jquery.mousewheel.min.js
```

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```
/**
* @license jquery.panzoom.js v2.0.5
* Updated: Thu Jul 03 2014
* Add pan and zoom functionality to any element
* Copyright (c) 2014 timmy willison
* Released under the MIT license
* https://github.com/timmywil/jquery.panzoom/blob/master/MIT-License.txt
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/doc/html/resource/lib/jquery.panzoom.min.js
```

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Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/ant/templates/tool-windows.tmpl
```

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```
/** <p>
```

```

* Post-attribution checking and transformation.
* </p>
* <p>
* This phase performs the following checks.
* </p>
* <ul>
* <li>All overrides conform to rules.</li>
* <li>All type arguments conform to bounds.</li>
* <li>All type variable uses conform to variance annotations.</li>
* <li>No forward reference to a term symbol extends beyond a value definition.</li>
* </ul>
* <p>
* It performs the following transformations.
* </p>
* <ul>
* <li>Local modules are replaced by variables and classes</li>
* <li>Calls to case factory methods are replaced by new's.</li>
* <li>Eliminate branches in a conditional if the condition is a constant</li>
* </ul>
*
* @author Martin Odersky
* @version 1.0
*
* @todo Check whether we always check type parameter bounds.
*/

```

Found in path(s):

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/typechecker/RefChecks.scala

```

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```

/*

```

```

* Copyright (c) 2014 Contributor. All rights reserved.

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/ZipAndJarFileLookupFactory.scala

```

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/AggregateClassPath.scala

```

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/PackageNameUtils.scala

```

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/ClassPathFactory.scala

```

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/DirectoryClassPath.scala

```

```

* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-
jar/scala/tools/nsc/classpath/FileUtils.scala

```

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/classpath/ClassPath.scala
```

```
*
```

```
/opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/classpath/ZipArchiveFileLookup.scala
```

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/ClassPathMemoryConsumptionTester.scala
```

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```
/** The main attribution phase.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/typechecker/Analyzer.scala
```

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```
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jar/scala/tools/ant/templates/tool-unix.tmpl
```

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```
/*
```

```
* tools.tooltip 1.1.3 - Tooltips done right.
```

```
*
```

```
* Copyright (c) 2009 Tero Piirainen
```

```
* http://flowplayer.org/tools/tooltip.html
```

```
*
```

```
* Dual licensed under MIT and GPL 2+ licenses
```

```
* http://www.opensource.org/licenses
```

```
*
```

```
* Launch : November 2008
```

```
* Date: ${date}
```

```
* Revision: ${revision}
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1152590571_1618258173.22/0/scala-compiler-2-12-7-sources-1-  
jar/scala/tools/nsc/doc/html/resource/lib/tools.tooltip.js
```

1.210 jersey-client 2.34

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Source Code

The project maintains the following source code repositories:

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1.226 libmagic 1:5.38-4

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1.227 libdconf1 0.36.0-1

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1.228 avro 1.10.1

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There were many many sources in total, but any text marked
"copyright" was avoided. Locally-written documentation was one
source. An earlier version of the list resided in a filespace called
PUBLIC on the University mainframe, because it was considered public
domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at
least 11 of 12 dictionaries as indicated in the 12Dicts package. All
words from the 12Dicts package have had likely inflections added via
my inflection database.

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The 50 level includes Brian's frequency class 1, words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in

other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

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The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is in the public domain.

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```
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#
# This rule set is based on Lawrence Phillips original metaphone
# algorithm with modifications made by Michael Kuhn in his
# C implantation, more modifications by Björn Jacke when
# converting the algorithm to a rule set and minor
# touch ups by Kevin Atkinson
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#
# Björn Jacke may be reached by email at bjoern.jacke@gmx.de
#
# Changelog:
#
# 2000-01-05 Björn Jacke <bjoern.jacke@gmx.de>
#     - first version with translation rules derived from
#       metaphone.cc distributed with aspell 0.28.3
#     - "TH" is now represented as "@" because "0" is a
#       meta character
#     - removed TH(!vowel) --> T; always use TH --> # instead
#     - dropped "^AE" -> "E" (redundant)
#     - "ing" is transformed to "N", not "NK"
#     - "SCH(EO)" transforms to "SK" now
#     - added R --> SILENT if (after a vowel) and no (vowel or
#       "y" follows) like in "Marcy" or "abort"
#     - H is SILENT in RH at beginning of words
#     - H is SILENT if vowel leads and "Y" follows
#     - some ".OUGH.." --> ...F exceptions added
#     - "^V" transforms
#       to "W"
# 2000-01-07 Kevin Atkinson <kevinatk@home.com>
#     Converted from header to data file.
#

```

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- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/Unpooled.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PooledByteBufAllocator.java
- *
- /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/package-info.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/SwappedByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/ByteBufOutputStream.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AbstractByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBuf.java
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- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AbstractByteBufAllocator.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PooledDirectByteBuf.java
- *
- /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/ByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PooledByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PoolSubpage.java
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- *

/opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PoolThreadCache.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PoolArena.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/ByteBufAllocator.java
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*
/opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/WrappedByteBuf.java
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jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
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jar/io/netty/buffer/UnreleasableByteBuf.java
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*
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jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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jar/io/netty/buffer/ByteBufProcessor.java
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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/SizeClasses.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/LongPriorityQueue.java

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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnsafeByteBufUtil.java

*

/opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PoolArenaMetric.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/HeapByteBufUtil.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PoolSubpageMetric.java

* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PoolChunkMetric.java

*

/opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java

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- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PooledSlicedByteBuf.java
- *
- /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
- * /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java

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*
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jar/org/apache/parquet/format/BlockCipher.java
* /opt/cola/permits/1202446978_1631568294.17/0/parquet-format-structures-1-12-0-sources-
jar/org/apache/parquet/format/event/FieldConsumer.java
* /opt/cola/permits/1202446978_1631568294.17/0/parquet-format-structures-1-12-0-sources-
jar/org/apache/parquet/format/Util.java
* /opt/cola/permits/1202446978_1631568294.17/0/parquet-format-structures-1-12-0-sources-
jar/org/apache/parquet/format/event/Consumers.java
* /opt/cola/permits/1202446978_1631568294.17/0/parquet-format-structures-1-12-0-sources-
jar/org/apache/parquet/format/LogicalTypes.java
```

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```
* /opt/cola/permits/1202446978_1631568294.17/0/parquet-format-structures-1-12-0-sources-jar/parquet.thrift
```

1.238 parquet-common 1.12.0

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```
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/IOExceptionUtils.java
*
/opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/SemanticVersion.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
```

```
jar/org/apache/parquet/bytes/BytesInput.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/ShouldNeverHappenException.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/bytes/SingleBufferInputStream.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/glob/GlobNode.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/glob/GlobParser.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/Files.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/glob/GlobExpander.java
*
/opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/util/DynConstructors.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/util/DynMethods.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/Strings.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/bytes/ByteBufferInputStream.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/glob/WildcardPath.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/bytes/ByteBufferAllocator.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/bytes/ConcatenatingByteArrayCollector.java
* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/VersionParser.java
*
/opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-
jar/org/apache/parquet/Closeables.java
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* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/LittleEndianDataOutputStream.java

*

/opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/CapacityByteArrayOutputStream.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/hadoop/metadata/Canonicalizer.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/HeapByteBufferAllocator.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/Log.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/ParquetRuntimeException.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/hadoop/metadata/ColumnPath.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/LittleEndianDataInputStream.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/BytesUtils.java

*

/opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/Preconditions.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/DirectByteBufferAllocator.java

* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/Ints.java

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- * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/io/PositionOutputStream.java
 - *
 - /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/io/InputFile.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/io/OutputFile.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/hadoop/codec/CompressionCodecNotSupportedException.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/compression/CompressionCodecFactory.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/io/SeekableInputStream.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/hadoop/metadata/CompressionCodecName.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/Exceptions.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/io/DelegatingPositionOutputStream.java
 - *
 - /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/io/DelegatingSeekableInputStream.java
 - * /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/bytes/MultiBufferInputStream.java
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* /opt/cola/permits/1202446201_1631568151.58/0/parquet-common-1-12-0-sources-jar/org/apache/parquet/OutputStreamCloseException.java

1.239 parquet-jackson 1.12.0

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1.240 parquet-hadoop 1.12.0

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1.242 parquet-avro 1.12.0

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1.243 jackson-core 2.11.4

1.243.1 Available under license :

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1.244 libcrack 2.9.6-3.2

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Upstream-Name: cracklib

Upstream-Contact: Nathan Neulinger <nneul@umr.edu>

Source: <https://github.com/cracklib/cracklib>

Files: *

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1.247 cglib 3.3

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/ReaderInputStream.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/LittleEndianByteArray.java
```

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/MacHashFunction.java
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*/

Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ContiguousSet.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/annotations/Beta.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/package-info.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Equivalence.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Ascii.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/package-info.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Strings.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedLists.java

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/annotations/package-info.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
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```

```
*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ObjectArrays.java
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Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/TransformedIterator.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableMap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompactHashSet.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RangeMap.java
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*/
/**
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableSet.java
*
```

```
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/ImmutableSupplier.java
```

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/package-info.java

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Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedAsList.java

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*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
* which contained the following notice:
*
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the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/
*
* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
*/

```

Found in path(s):

```

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/MoreExecutors.java

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* limitations under the License.
*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable}
to use {@link
*   ImmutableSortedMap#of(Comparable, Object)}.</b>
*/

```

Found in path(s):

```

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

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jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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*/

/**

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/collect/IndexedImmutableSet.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/collect/JdkBackedImmutableBiMap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/NullnessCasts.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/NullnessCasts.java

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*/

/**

* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedSetMultimap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/EnumBiMap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingObject.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Lists.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/package-info.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ArrayListMultimap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ClassToInstanceMap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CompoundOrdering.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Ordering.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Iterators.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ReverseOrdering.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSet.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Interner.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/HashMultimap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractIterator.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/EnumHashMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingIterator.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

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jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Multiset.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/SingletonImmutableSet.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/package-
info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
```

jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/Stopwatch.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Bytes.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/io/MultiReader.java  
*  
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/SequentialExecutor.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Floats.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/Converter.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/primitives/Ints.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/util/concurrent/ListenableFutureTask.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/io/FileBackedOutputStream.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/escape/UnicodeEscaper.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/escape/Escaper.java  
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-  
jar/com/google/common/base/CharMatcher.java  
*
```

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/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/Longs.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
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jar/com/google/common/primitives/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Internal.java
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jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/Java8Compatibility.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Java8Compatibility.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/ToDoubleRounder.java

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jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/SubscriberRegistry.java
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jar/com/google/common/graph/IncidentEdgeSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/CompactHashing.java
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- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/AbstractValueGraph.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
- *
- /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/GraphConnections.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/LinkedHashMapGwtSerializationDependencies.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ElementOrder.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/MapIteratorCache.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Comparators.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java
- *
- /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/NetworkBuilder.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/GraphBuilder.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/graph/StandardMutableGraph.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/graph/AbstractGraphBuilder.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/NetworkConnections.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/MultiEdgesConnecting.java

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ValueGraph.java
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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```

Found in path(s):

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/SmallCharMatcher.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/Reflection.java

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*/

/**

* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/DoublesMethodsForWeb.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingLock.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Utf8.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/VerifyException.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/HashingInputStream.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Verify.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractTable.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/TypeVisitor.java

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
*
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```
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/CharSequenceReader.java
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```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/annotations/GwtCompatible.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java
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- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Platform.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableMap.java
- *
- /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TreeBasedTable.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Collections2.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableEntry.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/StandardTable.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CollectPreconditions.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Tables.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SingletonImmutableBiMap.java
- *
- /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Range.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/PeekingIterator.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
- * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableMapValues.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/Table.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/StandardRowSortedTable.java
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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
```

```
jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ImmutableGraph.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/Network.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/TopKSelector.java
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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/html/package-
info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/SipHashFunction.java
*
```

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/ClassPath.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/Parameter.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CharSink.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/Striped64.java

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jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
*
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/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/Cache.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/CacheLoader.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Hasher.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/reflect/Types.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/DoubleUtils.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableMultiset.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-

jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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jar/com/google/common/cache/RemovalNotification.java
*
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jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/hash/Funnel.java
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jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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jar/com/google/common/cache/Weigher.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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*
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jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/cache/RemovalCause.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/AbstractHasher.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/RemovalListeners.java
*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Absent.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Ticker.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/hash/AbstractStreamingHasher.java

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Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedMultisets.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedMultiset.java

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*/

/**

* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available under GWT but with a slightly different signature.

*

* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler

wouldn't recognize

- * it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
- * compiler to autostrip the normal server method in order to expose the special, inherited GWT
- * version.
- */

Found in path(s):

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/Partially.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedIterables.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SortedIterable.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RangeSet.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractRangeSet.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Count.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/GeneralRange.java

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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/CharEscaperBuilder.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
```

```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
```

```
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/EnumMultiset.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/EventBus.java
```

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CountingOutputStream.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/Subscribe.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/HashBiMap.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/MultiInputStream.java
 *
 /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/package-info.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Preconditions.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/Interners.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Flushables.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LineReader.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Functions.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
 *
 /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/ByteStreams.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/CharStreams.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Closeables.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/ExecutionList.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Charsets.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
 * /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/Defaults.java

```

*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/AbstractIterator.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Objects.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/package-
info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/base/Function.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/io/Resources.java
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*

* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* `java.util.HashMap`

class.

*/

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jar/com/google/common/graph/Traverser.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/BaseGraph.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/ClosingFuture.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/GwtTransient.java
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```
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
```

*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/TableCollectors.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
*
/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/RegularImmutableList.java
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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/PatternCompiler.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/CommonPattern.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/JdkPattern.java

*

/opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/base/CommonMatcher.java

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* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/io/MoreFiles.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/MultimapBuilder.java

* /opt/cola/permits/1208984113_1632979646.22/0/guava-31-0-jre-sources-jar/com/google/common/collect/ImmutableMapEntry.java

1.249 chill-java 0.7.6

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*
*/

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* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/ArraysAsListSerializer.java

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* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/ClosureSerializer.java

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Found in path(s):

* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/PriorityQueueSerializer.java

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* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/PackageRegistrar.java

* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/UUIDSerializer.java

* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-

jar/com/twitter/chill/java/URISerializer.java
*
/opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/Config.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/ReflectingInstantiator.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/SingleDefaultRegistrar.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/ConfigurationException.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ReflectingRegistrar.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/IterableRegistrar.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/InetSocketAddressSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/SimpleDateFormatSerializer.java
*
/opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/BitSetSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/SqlTimeSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/SingleRegistrar.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/config/JavaMapConfig.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ResourcePool.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ReflectingDefaultRegistrar.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/KryoPool.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/SqlDateSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/ClassRegistrar.java
*
/opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/TimestampSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/IterableRegistrarSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/LocaleSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/SerDeState.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/java/RegexSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/KryoInstantiator.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-

jar/com/twitter/chill/IKryoRegistrar.java

* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-

jar/com/twitter/chill/config/ConfiguredInstantiator.java

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/**

* <p>Encodes and decodes to and from Base64 notation.</p>

* <p>Homepage: http://i harder.net/base64.</p>

*

* <p>Example:</p>

*

* <code>String encoded = Base64.encode(myByteArray);</code>

*

* <code>byte[] myByteArray = Base64.decode(encoded);</code>

*

* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass

* several pieces of information to the encoder. In the "higher level" methods such as

* encodeBytes(bytes, options) the options parameter can be used to indicate such

* things as first gzipping the bytes before encoding them, not inserting linefeeds,

* and encoding using the URL-safe and Ordered dialects.</p>

*

* <p>Note, according to RFC3548,</p>

* Section 2.1, implementations should not add line feeds unless explicitly told

* to do so. I've got Base64 set to this behavior

now, although earlier versions

* broke lines by default.</p>

*

* <p>The constants defined in Base64 can be OR-ed together to combine options, so you

* might make a call like this:</p>

*

* <code>String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DO_BREAK_LINES);</code>

* <p>to compress the data before encoding it and then making the output have newline characters.</p>

* <p>Also...</p>

* <code>String encoded = Base64.encodeBytes(crazyString.getBytes());</code>

*

*

*

* <p>

* Change Log:

* </p>

*

* v2.3.7 - Fixed subtle bug when base 64 input stream contained the

* value 01111111, which is an invalid base 64 character but should not

* throw an ArrayIndexOutOfBoundsException either. Led to discovery of

* mishandling (or potential for better handling) of other bad input

* characters. You should now get an IOException if you try decoding

* something that has bad characters in it.

* v2.3.6 - Fixed bug when breaking lines

and the final byte of the encoded

- * string ended in the last column; the buffer was not properly shrunk and
- * contained an extra (null) byte that made it into the string.
- * v2.3.5 - Fixed bug in { @link #encodeFromFile } where estimated buffer size
- * was wrong for files of size 31, 34, and 37 bytes.
- * v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
- * the Base64.OutputStream closed the Base64 encoding (by padding with equals
- * signs) too soon. Also added an option to suppress the automatic decoding
- * of gzipped streams. Also added experimental support for specifying a
- * class loader when using the
- * { @link #decodeToObject(java.lang.String, int, java.lang.ClassLoader) }
- * method.
- * v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
- * footprint with its CharEncoders and so forth. Fixed some javadocs that were
- * inconsistent. Removed imports and specified things like java.io.IOException
- * explicitly inline.
- * v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
- * final encoded data will be so that the code doesn't have to create two output
- * arrays: an oversized initial one and then a final, exact-sized one. Big win
- * when using the { @link #encodeBytesToBytes(byte[]) } family of methods (and not
- * using the gzip options which uses a different mechanism with streams and stuff).
- * v2.3.1 - Added { @link #encodeBytesToBytes(byte[], int, int, int) } and some
- * similar helper methods to be more efficient with memory by not returning a
- * String but just a byte array.
- * v2.3 - This is not a drop-in replacement! This is two years of comments
- * and bug fixes queued up and finally executed. Thanks to everyone who sent
- * me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
- * Much bad coding was cleaned up including throwing exceptions
- where necessary
- * instead of returning null values or something similar. Here are some changes
- * that may affect you:
- *
- * Does not break lines, by default. This is to keep in compliance with
- * RFC3548.
- * Throws exceptions instead of returning null values. Because some operations
- * (especially those that may permit the GZIP option) use IO streams, there
- * is a possibility of an java.io.IOException being thrown. After some discussion and
- * thought, I've changed the behavior of the methods to throw java.io.IOExceptions
- * rather than return null if ever there's an error. I think this is more
- * appropriate, though it will require some changes to your code. Sorry,
- * it should have been done this way to begin with.
- * Removed all references to System.out, System.err, and the like.
- * Shame on me. All I can say is sorry they
- were ever there.
- * Throws NullPointerExceptions and IllegalArgumentExceptions as needed
- * such as when passed arrays are null or offsets are invalid.
- * Cleaned up as much javadoc as I could to avoid any javadoc warnings.
- * This was especially annoying before for people who were thorough in their

- * own projects and then had gobs of javadoc warnings on this file.
- *
- * v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
- * when using very small files (~< 40 bytes).
- * v2.2 - Added some helper methods for encoding/decoding directly from
- * one file to the next. Also added a main() method to support command line
- * encoding/decoding from one file to the next. Also added these Base64 dialects:
- *
- * The default is RFC3548 format.
- * Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
- * URL and file name friendly format as described in Section
- 4 of RFC3548.
- * <http://www.faqs.org/rfcs/rfc3548.html>
- * Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
- * URL and file name friendly format that preserves lexical ordering as described
- * in <http://www.faqs.org/qa/rfcc-1940.html>
- *
- * Special thanks to Jim Kellerman at http://www.powerset.com/
- * for contributing the new Base64 dialects.
- *
- *
- * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
- * some convenience methods for reading and writing to and from files.
- * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
- * with other encodings (like EBCDIC).
- * v2.0.1 - Fixed an error when decoding a single byte, that is, when the
- * encoded data was a single byte.
- * v2.0 - I got rid of methods that used booleans to set options.
- * Now everything is more consolidated and cleaner.
- The code now detects
- * when data that's being decoded is gzip-compressed and will decompress it
- * automatically. Generally things are cleaner. You'll probably have to
- * change some method calls that you were making to support the new
- * options format (<tt>int</tt>s that you "OR" together).
- * v1.5.1 - Fixed bug when decompressing and decoding to a
- * byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.
- * Added the ability to "suspend" encoding in the Output Stream so
- * you can turn on and off the encoding if you need to embed base64
- * data in an otherwise "normal" stream (like an XML file).
- * v1.5 - Output stream pases on flush() command but doesn't do anything itself.
- * This helps when using GZIP streams.
- * Added the ability to GZip-compress objects before encoding them.
- * v1.4 - Added helper methods to read/write files.
- * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
- *
- v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
- * where last buffer being read, if not completely full, was not returned.
- * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

```
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
*
* <p>
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/
```

Found in path(s):

```
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-jar/com/twitter/chill/Base64.java
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```

```
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 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/UnmodifiableSortedMapSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/UnmodifiableMapSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/UnmodifiableJavaCollectionSerializer.java
*
/opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/UnmodifiableSortedSetSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
```

```
jar/com/twitter/chill/java/UnmodifiableListSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/UnmodifiableCollectionSerializer.java
* /opt/cola/permits/1209651892_1633111110.66/0/chill-java-0-7-6-sources-3-
jar/com/twitter/chill/java/UnmodifiableSetSerializer.java
```

1.250 scala-library 2.12.7

1.250.1 Available under license :

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```
/**
 *
 * A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass`
 * field. This is particularly useful for instantiating `Array`s whose element types are unknown
 * at compile time.
 *
 * `ClassTag`s are a weaker special case of [[scala.reflect.api.TypeTags#TypeTag]]s, in that they
 * wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type
 * information. That is, `ClassTag`s are constructed from knowing only the top-level class of a
 * type, without necessarily knowing all of its argument types. This runtime information is enough
 * for runtime `Array` creation.
 *
 * For example:
 * {{{
 * scala> def mkArray[T : ClassTag](elems: T*) = Array[T](elems: _*)
 * mkArray: [T](elems: T*)(implicit evidence$1: scala.reflect.ClassTag[T])Array[T]
 *
 * scala> mkArray(42, 13)
 * res0: Array[Int] = Array(42, 13)
 *
 * scala> mkArray("Japan","Brazil","Germany")
 * res1: Array[String] = Array(Japan, Brazil, Germany)
 * }}}
 *
 * See [[scala.reflect.api.TypeTags]] for more examples, or the
 * [[http://docs.scala-lang.org/overviews/reflection/typetags-manifests.html Reflection Guide: TypeTags]]
 * for more details.
 */
```

Found in path(s):

```
* /opt/cola/permits/1214137835_1634155685.61/0/scala-library-2-12-7-sources-1-jar/scala/reflect/ClassTag.scala
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```

```
/**
 * Latch used to implement waiting on a DefaultPromise's result.
```

*
* Inspired by: [[<http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/locks/AbstractQueuedSynchronizer.java>]]
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* [[<http://creativecommons.org/publicdomain/zero/1.0/>]]
*/

Found in path(s):

* /opt/cola/permits/1214137835_1634155685.61/0/scala-library-2-12-7-sources-1-jar/scala/concurrent/impl/Promise.scala

1.251 tdb 1.45.5

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Version 3, 29 June 2007

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Any

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1.253 netty 4.1.70.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.70.Final
Built-By: norman
Bnd-LastModified: 1635932641304
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project

Bundle-Name: Netty/All-in-One
Bundle-Version: 4.1.70.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk:
1.8.0_252
Implementation-URL: <https://netty.io/netty-all/>

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1.254 icu 66.1-2ubuntu2.1

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```

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```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```

SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

```

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
```

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1.259 apache-log4j 2.17.1

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1.260 log4j-slf4j-impl 2.17.1

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1.261 antlr-runtime 4.7

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```
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 */

lexer grammar XPathLexer;

tokens { TOKEN_REF, RULE_REF }

/*
path : separator? word (separator word)* EOF ;

separator
: '/' '!'
| '/' '/' '!'
| '/'
| '/' '/'
;

word: TOKEN_REF
| RULE_REF
| STRING
| '*'
;
*/

ANYWHERE : '/' ;
ROOT : '/' ;
WILDCARD : '*' ;
BANG : '! ;

ID : NameStartChar NameChar*
{
String text = getText();
if ( Character.isUpperCase(text.charAt(0)) ) setType(TOKEN_REF);
else setType(RULE_REF);
}
;

fragment
```

```
NameChar : [A-Za-z0-9_]
          | ~[\u0000-\u007F] {Character.isUnicodeIdentifierPart(_input.LA(-1))}?
          ;
```

fragment

```
NameStartChar
      : [A-Za-z]
      | ~[\u0000-\u007F] {Character.isUnicodeIdentifierStart(_input.LA(-1))}?
      ;
```

```
STRING : \" .*? \";
```

```
//WS : [ \t\r\n]+ -> skip ;
```

Found in path(s):

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.g4
```

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```
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```

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```

Found in path(s):

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/FailedPredicateException.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/ParserRuleContext.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/WildcardTransition.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/ANTLRFileStream.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/BasicState.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java
```

```
*
```

```
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/RuleNode.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/IntSet.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/PrecedencePredicateTransition.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/ParserErrorListener.java
```

```
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
```

```

jar/org/antlr/v4/runtime/ANTLRErrorStrategy.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/Token.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java
*
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/Trees.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LexerModeAction.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/RecognitionException.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LoopEndState.java
*
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/WritableToken.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LexerChannelAction.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/dfa/DFA.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/Predicate.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
*
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/PredicateTransition.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPath.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/IntegerList.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-

```

jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/MurmurHash.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/dfa/ArrayEdgeMap.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/ATN.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/OrderedHashSet.java
*
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathLexerErrorListener.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathTokenAnywhereElement.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/Recognizer.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/PredictionContextCache.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/LL1Analyzer.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
*
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/AtomTransition.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/StarLoopbackState.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/CodePointCharStream.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/misc/AbstractEqualityComparator.java
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jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/TreeNodeImpl.java
*
/opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/dfa/AbstractEdgeMap.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/Transition.java

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1.262 stax-api 4.2.1

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Found in path(s):

- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LongType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
- *
- /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/xml/util/XmlChars.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearMonthType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DurationType.java
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- /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TimeType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/HexBinaryType.java

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jar/com/sun/msv/datatype/xsd/Comparator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/GYearType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java
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jar/com/sun/msv/datatype/xsd/GDayType.java
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jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IDREFType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RegexParser.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RangeToken.java

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jar/com/sun/msv/datatype/regexp/message.properties
```

```
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message_ja.properties
```

```
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message_fr.properties
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- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/RegularExpression.java
- *
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Op.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParseException.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Match.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/REUtil.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-

jar/com/sun/msv/datatype/regexp/Token.java

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jar/com/sun/msv/datatype/xsd/Messages.properties  
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/xsd/Messages_ja.properties
```

1.264 opentracing-noop 0.31.0

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* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopSpanBuilder.java  
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopSpan.java  
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-
```

jar/io/opentracing/noop/NoopScopeManager.java

*

/opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-

jar/io/opentracing/noop/NoopSpanContext.java

* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-

jar/io/opentracing/noop/NoopTracer.java

* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-

jar/io/opentracing/noop/NoopTracerFactory.java

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1.265 netty-codec-socks 4.1.63.Final

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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java

*

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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java

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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java

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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java

* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java

*

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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
*
/opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
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jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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jar/io/netty/handler/codec/socksx/SocksMessage.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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jar/io/netty/handler/codec/socks/SocksResponse.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
*
/opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdResponse.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksRequest.java

```

```
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
*
/opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
*
/opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/1257811113_1643017751.3/0/netty-codec-socks-4-1-63-final-sources-
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* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

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* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

*

/opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_util.h

* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_limits.h

* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_util.c

* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/netty_unix_limits.c

* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
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* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/Unix.java

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/opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-jar/io/netty/channel/unix/package-info.java

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jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
*
/opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/netty_unix_socket.c
*
/opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
jar/netty_unix_errors.h
*
/opt/cola/permits/1257810946_1643017794.71/0/netty-transport-native-unix-common-4-1-63-final-sources-
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* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/Native.java

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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
*/
```

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*/opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
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/**

* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.

*/

/**

* Set the { @code TCP_QUICKACK } option on the socket.
* See [TCP_QUICKACK](https://linux.die.net/man/7/tcp)
* for more details.

*/

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* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
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* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
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* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
*
/opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java
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* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
*
/opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-

```
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
*
/opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
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```
Found in path(s):
* /opt/cola/permits/1257810960_1643017754.64/0/netty-transport-native-epoll-4-1-63-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
```

1.268 netty-handler-proxy 4.1.63.Final

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* /opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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* /opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

*

/opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java

* /opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

* /opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/io/netty/handler/proxy/package-info.java

* /opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java

* /opt/cola/permits/1257811421_1643017802.55/0/netty-handler-proxy-4-1-63-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java

1.269 byte-buddy 1.11.0

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1.270 reflections 0.9.10

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1.271 jetty-xml 9.4.18.v20190429

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* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
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jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/CookieUtil.java
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jar/io/netty/handler/codec/http/cookie/package-info.java
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jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieUtil.java
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jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
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jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
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* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java

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/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java

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* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
*

/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
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* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
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* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java

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jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-

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jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.
java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpStatusClass.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
ava
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java

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*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/ClientCookieEncoder.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HTTPHeaderValues.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HTTPHeaderNames.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
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- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
- *
- /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
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- *
- /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
- *
- /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
- * /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-

jar/io/netty/handler/codec/http/FullHttpResponse.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cors/package-info.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/FullHttpMessage.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java

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* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
*
/opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
* /opt/cola/permits/1258195468_1643041680.07/0/netty-codec-http-4-1-63-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
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1.276 jtoml 1.0.0

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1.277 zero-allocation-hashing 0.9

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- * /opt/cola/permits/1258286306_1643052511.5/zero-allocation-hashing-0-9-sources-jar/net/openhft/hashing/UnsafeAccess.java
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- * /opt/cola/permits/1258286306_1643052511.5/zero-allocation-hashing-0-9-sources-jar/net/openhft/hashing/CharSequenceAccess.java
- * /opt/cola/permits/1258286306_1643052511.5/zero-allocation-hashing-0-9-sources-jar/net/openhft/hashing/MurmurHash_3.java
- * /opt/cola/permits/1258286306_1643052511.5/zero-allocation-hashing-0-9-sources-jar/net/openhft/hashing/CityAndFarmHash_1_1.java
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- *
- /opt/cola/permits/1258286306_1643052511.5/zero-allocation-hashing-0-9-sources-jar/net/openhft/hashing/StringHash.java
- * /opt/cola/permits/1258286306_1643052511.5/zero-allocation-hashing-0-9-sources-jar/net/openhft/hashing/LongHashFunction.java
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1.278 opentracing-util 0.31.0

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*/

Found in path(s):

* /opt/cola/permits/1258802285_1643112872.0/0/opentracing-util-0-31-0-sources-
jar/io/opentracing/util/AutoFinishScope.java
* /opt/cola/permits/1258802285_1643112872.0/0/opentracing-util-0-31-0-sources-
jar/io/opentracing/util/ThreadLocalScope.java
* /opt/cola/permits/1258802285_1643112872.0/0/opentracing-util-0-31-0-sources-
jar/io/opentracing/util/ThreadLocalScopeManager.java
*
/opt/cola/permits/1258802285_1643112872.0/0/opentracing-util-0-31-0-sources-
jar/io/opentracing/util/AutoFinishScopeManager.java
* /opt/cola/permits/1258802285_1643112872.0/0/opentracing-util-0-31-0-sources-
jar/io/opentracing/util/GlobalTracer.java

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Found in path(s):

* /opt/cola/permits/1258802285_1643112872.0/0/opentracing-util-0-31-0-sources-jar/META-
INF/maven/io.opentracing/opentracing-util/pom.xml

1.279 commons-cli 1.5.0

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1.280 opentracing-api 0.31.0

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```

Found in path(s):

```
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/Scope.java  
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/References.java  
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/Tracer.java  
*  
/opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/tag/AbstractTag.java  
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
```

jar/io/opentracing/ScopeManager.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/propagation/TextMapInjectAdapter.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/tag/StringTag.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/propagation/TextMap.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/log/Fields.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/tag/IntOrStringTag.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/tag/Tags.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/tag/BooleanTag.java
*
/opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/SpanContext.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/propagation/TextMapExtractAdapter.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/Span.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/tag/IntTag.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/propagation/Format.java
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* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-api/pom.xml

1.281 annotations 4.1.1.4

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```
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-
jar/android/annotation/SuppressLint.java
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-
jar/android/annotation/TargetApi.java
```

1.282 proto-google-common-protos 2.0.1

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```

Found in path(s):

```
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/launch_stage.proto
```

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- */

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- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/ExprOrBuilder.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Http.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ProjectProperties.java
- *
- /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ChangeType.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/AuthRequirementOrBuilder.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ConfigChange.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/cloud/audit/AuthorizationInfo.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/Expr.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/Date.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/Color.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/MonitoringProto.java
- *
- /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ClientProto.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/LabelDescriptorOrBuilder.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/logging/type/LogSeverity.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ControlOrBuilder.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Context.java
- * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/CustomHttpPatternOrBuilder.java

* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/MetricProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/LocalizedMessage.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/QuotaProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/LabelProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/logging/type/HttpRequestProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/ResourceInfo.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/BackendRule.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/GetOperationRequest.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ControlProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/WaitOperationRequestOrBuilder.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/OperationsProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/DateTimeOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/QuotaLimitOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/DateTime.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/ExprProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Control.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/PostalAddress.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ContextRuleOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Metric.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/Status.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Distribution.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/ListOperationsRequestOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-

jar/com/google/api/OAuthRequirementsOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/LatLngOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/Service.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/AuthProvider.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/rpc/DebugInfoOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/OAuthRequirements.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/rpc/CodeProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/DateOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/ConfigChangeOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/SystemParameterRule.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/SourceInfoOrBuilder.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/MonitoredResource.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/TimeZoneOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/SourceInfoProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/LogDescriptor.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/UsageRuleOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/DayOfWeek.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/Advice.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/longrunning/ListOperationsRequest.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/TimeOfDayProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/MetricDescriptor.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/LatLng.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/MonitoredResourceMetadataOrBuilder.java

* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/JwtLocation.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/EndpointProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/PreconditionFailureOrBuilder.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/UsageOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/geo/type/Viewport.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/Operation.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ResourceReference.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/DebugInfo.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/AuthenticationRuleOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/QuotaFailureOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/HttpRule.java
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/AuthenticationRule.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/AuthProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Documentation.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/AuthProviderOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/MethodInfoOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/MonitoredResourceDescriptor.java
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/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Endpoint.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/SystemParameter.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/SystemParameterRuleOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/cloud/audit/AuditLogOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-

jar/com/google/rpc/PreconditionFailure.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/ResourceProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/Logging.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/CalendarPeriodProto.java
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/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/BackendOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/TimeZone.java
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jar/com/google/api/DocumentationOrBuilder.java
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jar/com/google/api/MetricRuleOrBuilder.java
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jar/com/google/longrunning/CancelOperationRequest.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/SystemParameters.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/MoneyOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/geo/type/ViewportProto.java
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/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/ConfigChangeProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/MonitoredResourceMetadata.java
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/ContextOrBuilder.java
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jar/com/google/rpc/context/AttributeContextProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/BackendProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/ResourceReferenceOrBuilder.java
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jar/com/google/rpc/BadRequestOrBuilder.java
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jar/com/google/type/Quaternion.java
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jar/com/google/api/LabelDescriptor.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/Money.java

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 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/GetOperationRequestOrBuilder.java
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 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ConsumerProto.java
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 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/EndpointOrBuilder.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/RequestInfoOrBuilder.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/DistributionOrBuilder.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/ColorProto.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/HttpBody.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/MetricRule.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/Help.java
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 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/SystemParameterProto.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/HttpRequestOrBuilder.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/Code.java
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 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/ProjectPropertiesOrBuilder.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/PostalAddressProto.java
 *
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 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Authentication.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/context/AttributeContextOrBuilder.java
 * /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-

jar/com/google/type/PostalAddressOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/Monitoring.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/rpc/RetryInfo.java
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jar/com/google/rpc/RetryInfoOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/QuaternionOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/QuotaLimit.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/rpc/StatusOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/rpc/ErrorInfo.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/HttpBodyProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/QuotaOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/Fraction.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/DistributionProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/cloud/audit/AuditLogProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/longrunning/ListOperationsResponseOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/Backend.java
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/TimeOfDay.java

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/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
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jar/com/google/api/UsageRule.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/cloud/audit/AuthenticationInfoOrBuilder.java
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jar/com/google/api/Page.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/rpc/context/AttributeContext.java
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jar/com/google/api/BillingOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/FractionProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/MetricOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/cloud/audit/AuthenticationInfo.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/cloud/audit/AuthorizationInfoOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/MonitoringOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/AuthRequirement.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/type/LatLngProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/geo/type/ViewportOrBuilder.java

* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/LoggingProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/FieldBehaviorProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/logging/type/HttpRequestOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/LoggingOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/PropertyOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/OperationOrBuilder.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/BadRequest.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/MonitoredResourceDescriptorOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/ErrorDetailsProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/logging/type/LogSeverityProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/HttpBodyOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/AdviceOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/MetricDescriptorOrBuilder.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/rpc/LocalizedMessageOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/JwtLocationOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/DeleteOperationRequest.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Billing.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/Property.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/SystemParametersOrBuilder.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/type/DateProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/api/LogDescriptorOrBuilder.java
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/com/google/longrunning/OperationInfo.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-

```
jar/com/google/api/HttpProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/FieldBehavior.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/logging/type/HttpRequest.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/ContextRule.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/BillingProto.java
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/longrunning/CancelOperationRequestOrBuilder.java
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to be released.
* </pre>
*
* <code>EARLY_ACCESS = 1;</code>
*/
```

```
Found in path(s):
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/com/google/api/LaunchStage.java
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```

Found in path(s):

```
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/monitored_resource.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/type/timeofday.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/system_parameter.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/cloud/audit/audit_log.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/control.proto
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/type/postal_address.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/config_change.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/logging/type/log_severity.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/context.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/distribution.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/type/date.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/quota.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/client.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/type/money.proto
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/rpc/context/attribute_context.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/consumer.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/rpc/status.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/type/expr.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
jar/google/api/http.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-
```

jar/google/api/log.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/calendar_period.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/color.proto
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/metric.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/documentation.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/usage.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/dayofweek.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/monitoring.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/fraction.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/auth.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/source_info.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/longrunning/operations.proto
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/resource.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/latlng.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/rpc/code.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/datetime.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/label.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/type/quaternion.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/geo/type/viewport.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/service.proto
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/httpbody.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/logging.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/annotations.proto

* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/billing.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/logging/type/http_request.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/field_behavior.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/rpc/error_details.proto
* /opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/backend.proto
*
/opt/cola/permits/1258876734_1643115814.46/0/proto-google-common-protos-2-0-1-sources-jar/google/api/endpoint.proto

1.283 animal-sniffer-annotation 1.19

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Found in path(s):

* /opt/cola/permits/1258876677_1643115784.16/0/animal-sniffer-annotations-1-19-sources-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

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```
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Found in path(s):

```
*/opt/cola/permits/1258876677_1643115784.16/0/animal-sniffer-annotations-1-19-sources-
jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java
```

1.284 commons-compiler 3.0.11

1.284.1 Available under license :

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- */

Found in path(s):

- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/IExpressionEvaluator.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/ICookable.java
- *
- /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/ErrorHandler.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/samples/ShippingCost.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/ISimpleCompiler.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/samples/ClassBodyDemo.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/package-info.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/CompilerFactoryFactory.java
- *
- /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/samples/ExpressionDemo.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/LocatedException.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
- jar/org/codehaus/commons/compiler/samples/ScriptDemo.java
- * /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-

jar/org/codehaus/commons/compiler/ICompilerFactory.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/Location.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/CompileException.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/IScriptEvaluator.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/samples/DemoBase.java

*
/opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/IClassBodyEvaluator.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/Cookable.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/compiler/WarningHandler.java

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* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/samples/package-info.java

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jar/org/codehaus/commons/nullanalysis/Nullable.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/nullanalysis/NotNull.java
*
/opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/nullanalysis/package-info.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-
jar/org/codehaus/commons/nullanalysis/NotNullByDefault.java

1.285 janino 3.0.11

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* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/samples/package-info.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/package-info.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/package-info.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/tools/package-info.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/package-info.java
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* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/StringResource.java

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* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/TokenType.java

* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-

jar/org/codehaus/janino/util/Annotatable.java

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/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/TokenStream.java

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 jar/org/codehaus/janino/util/resource/ZipFileResourceFinder.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Compiler.java
 *
 /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/ExpressionEvaluator.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/JaninoRuntimeException.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/CodeContext.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/util/TeeReader.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/tools/HprofScrubber.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/util/resource/Resource.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/util/resource/ResourceCreator.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
 jar/org/codehaus/janino/ResourceFinderIClassLoader.java
 * /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-

jar/org/codehaus/janino/util/MultiIterator.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/iterator/FilterIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/JavaSourceClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/Producer.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/UnicodeUnescapeException.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/ClassFile.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Access.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/iterator/ReverseListIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/SimpleCompiler.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/samples/DeclarationCounter.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ClassBodyEvaluator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/TokenStreamImpl.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/iterator/TraversingIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Scanner.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/iterator/FilterListIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Mod.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/DirectoryResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/IClass.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/LazyMultiResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/ResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/Benchmark.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/MapResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/InternalCompilerException.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Parser.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/AntCompilerAdapter.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/FileResourceFinder.java
*

/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/TransformingIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/ByteArrayClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Unparser.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/ResourceFinderClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/CachingJavaSourceClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/FileResourceCreator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/ProducerIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/FileResource.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/DirectoryIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Descriptor.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/UniterableElementException.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Java.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/PathResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/IteratorCollection.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/CompilerFactory.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Opcode.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/MethodDescriptor.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/AutoIndentWriter.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/iterator/MultiDimensionalIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/DirectoryResourceCreator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/MapResourceCreator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/ClassFileIClass.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/ReflectionIClass.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/resource/MultiResourceFinder.java
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/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/FilterWarningHandler.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/AbstractTraverser.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/iterator/EnumerationIterator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/IClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/UnicodeUnescapeReader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/resource/JarDirectoriesResourceFinder.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/JavaSourceIClassLoader.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ClassLoaderIClassLoader.java
*
/opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/ScriptEvaluator.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/StringPattern.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Visitor.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-
jar/org/codehaus/janino/util/Traverser.java

```

1.286 jackson-dataformat-yaml 2.10.1

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1.287 jackson-datatype-jsr310 2.10.1

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1.288 amqp-client 5.8.0

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1.289 metrics 4.1.0

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```

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```
* /opt/cola/permits/1262902143_1643563473.26/0/vavr-match-0-10-2-sources-
jar/io/vavr/match/annotation/Unapply.java
* /opt/cola/permits/1262902143_1643563473.26/0/vavr-match-0-10-2-sources-
jar/io/vavr/match/annotation/Patterns.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/tags/Tag.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/XML.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/FileSchema.java
*
/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/BinarySchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/DateSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/parameters/PathParameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/PasswordSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/examples/Example.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/Paths.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/ExternalDocumentation.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/security/SecurityScheme.java
*
```

/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/DateTimeSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/parameters/Parameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/UUIDSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/Components.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/info/License.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/PathItem.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/parameters/QueryParameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/ArraySchema.java
*
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* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/security/Scopes.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/links/LinkParameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/BooleanSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/security/OAuthFlow.java
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* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/links/Link.java
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/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/servers/ServerVariables.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/servers/Server.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/NumberSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/Operation.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/IntegerSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/security/SecurityRequirement.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/callbacks/Callback.java
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jar/io/swagger/v3/oas/models/media/Content.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/parameters/HeaderParameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/security/OAuthFlows.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
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* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/MediaType.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/ComposedSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/responses/ApiResponses.java
*
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jar/io/swagger/v3/oas/models/OpenAPI.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/info/Contact.java
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jar/io/swagger/v3/oas/models/info/Info.java
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jar/io/swagger/v3/oas/models/media/MapSchema.java
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jar/io/swagger/v3/oas/models/media/Schema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
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* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
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jar/io/swagger/v3/oas/models/servers/ServerVariable.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/EmailSchema.java

```

1.294 swagger-annotations 2.1.2

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* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
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jar/io/swagger/v3/oas/annotations/tags/Tags.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
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jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
*
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jar/io/swagger/v3/oas/annotations/tags/Tag.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/info/License.java
```

* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Operation.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Hidden.java
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* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/OAuthFlow.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Info.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Parameters.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/responses/ApiResponses.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/Schema.java
*
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* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/Server.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Contact.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/OAuthScope.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/Servers.java

1.295 error_prone_annotations 2.9.0

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INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.296 google-auth-library-credentials 0.22.2

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* /opt/cola/permits/1263969347_1643733611.53/0/google-auth-library-credentials-0-22-2-sources-jar/com/google/auth/RequestMetadataCallback.java

* /opt/cola/permits/1263969347_1643733611.53/0/google-auth-library-credentials-0-22-2-sources-jar/com/google/auth/Credentials.java

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* /opt/cola/permits/1263969347_1643733611.53/0/google-auth-library-credentials-0-22-2-sources-
jar/com/google/auth/ServiceAccountSigner.java

1.297 kafka-schema-registry-client 5.3.2

1.298 kafka-avro-serializer 5.3.2

1.299 handy-uri-templates 2.1.8

1.299.1 Available under license :

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* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/Operator.java

* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/Expression.java

* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-

```
jar/com/damnhandy/uri/template/UriUtil.java
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* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
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* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/VarName.java
* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
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* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/VarSpec.java
* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/UriTemplate.java
* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/DefaultVarExploder.java
*
/opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/UriTemplateParser.java
* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/VarExploderFactory.java
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Found in path(s):

```
* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/META-
INF/maven/com.damnhandy/handy-uri-templates/pom.xml
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```

Found in path(s):

* /opt/cola/permits/1273317603_1645099869.69/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/MalformedUriTemplateException.java

1.300 slf4j 1.7.36

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* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/SegmentedByteString.java

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Found in path(s):

```
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/HashingSink.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Options.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/HashingSource.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Pipe.java
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```
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Utf8.java
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* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Timeout.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/InflaterSource.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Buffer.java

*

/opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/AsyncTimeout.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/RealBufferedSource.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/BufferedSink.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Sink.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Okio.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/ForwardingSource.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/DeflaterSink.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/SegmentPool.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Util.java

* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Source.java

```
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/BufferedSource.java
*
/opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/RealBufferedSink.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/ForwardingSink.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/GzipSource.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Segment.java
```

1.303 bson4jackson 2.7.0

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* /opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-

jar/com/google/re2j/PatternSyntaxException.java

* /opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/Matcher.java

* /opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/CharGroup.java

* /opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/Utils.java

* /opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-jar/com/google/re2j/Parser.java

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*

/opt/cola/permits/1300482759_1649149014.06/0/re2j-1-6-sources-

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1.308 xz 5.2.4-1ubuntu1.1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

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To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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2007-2010, Lasse Collin

Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

License: config-h

configure.ac:

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Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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```

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```
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This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:

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1.310 bash 5.0-6ubuntu1.2

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Version 3, 29 June 2007

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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

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support/man2html.c

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* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSBucket.java
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* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/AggregateIterable.java

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* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MongoChangeStreamCursor.java
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* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ClientSessionClock.java

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* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ClientSessionImpl.java

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1.313 mongodb-driver-core 4.0.5

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/authentication/SaslPrep.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/lang/Nullable.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/WriteConcernHelper.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/lang/NonNull.java

*

/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/TransactionOptions.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncClientSessionImpl.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/lang/package-info.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ReadConcernHelper.java

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/lang/NonNullApi.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/AsyncClientSession.java
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* https://github.com/marianobarrios/tls-channel
*/
```

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```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
*
```

/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
*

/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/netty/ReadTimeoutHandler.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/Beta.java

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*/

/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
*
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.

```
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/
```

Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
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* https://github.com/marianobarrios/tls-channel
*/
/**
* Writes a sequence of bytesProduced to this channel from a subsequence of the
* given buffers.
*
* <p>
* See { @link GatheringByteChannel#write(ByteBuffer[], int, int) } for
more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different than the interface specification,
* with respect to non-blocking responses, see { @link #write(ByteBuffer) }
* for more details.
*
* @param srcs The buffers from which bytesProduced are to be retrieved
* @param offset The offset within the buffer array of the first buffer from
* which bytesProduced are to be retrieved; must be non-negative and no
* larger than <tt>srcs.length</tt>
```


* @throws IOException if the underlying channel throws an IOException
*/

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/annotations/Immutable.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/annotations/ThreadSafe.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ConnectionPoolListener.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/GetMoreProtocol.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/gridfs/AsyncGridFSUploadStream.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/ReadOperation.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/validator/UpdateFieldNameValidator.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/AsyncListDatabasesIterableImpl.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/session/ClientSession.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DefaultServerMonitorFactory.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/CollectionInfoRetriever.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/Cluster.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/BulkWriteOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ElementExtendingBsonWriter.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/AsyncAggregateIterable.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/selector/ServerSelector.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/diagnostics/logging/Loggers.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DeleteProtocol.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/CreateViewOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ChangeEvent.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/geojson/Point.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DefaultConnectionPool.java
*

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/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/ReadPreference.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/AbstractMultiServerCluster.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ChangeListener.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/Indexes.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/ConnectionSource.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/AbstractReferenceCounted.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/netty/NettyBufferProvider.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/gejson/Polygon.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/DeleteOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/OperationExecutorImpl.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/LevelCountingBsonWriter.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoInterruptedException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/BSONTimestampCodec.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/NoOpSessionContext.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/dns/DefaultDnsResolver.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/DropCollectionOperation.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

jar/com/mongodb/internal/async/AsyncAggregateResponseBatchCursor.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/operation/BulkWriteBatch.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/client/result/DeleteResult.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/connection/Server.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/client/model/geojson/Position.java
 *
 /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/selector/PrimaryServerSelector.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/async/client/AsyncChangeStreamIterable.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/operation/MapReduceInlineResultsAsyncCursor.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/client/model/ReturnDocument.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/operation/MapReduceAsyncBatchCursor.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/connection/ConnectionId.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/connection/CommandResultBaseCallback.java
 *
 /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/client/model/CreateCollectionOptions.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/event/ServerHeartbeatFailedEvent.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
 jar/com/mongodb/internal/async/client/ClientSessionHelper.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ConnectionPool.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/codex/GeometryCollectionCodec.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/changestream/package-info.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/ClusterAwareReadWriteBinding.java
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 /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/bulk/package-info.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoExecutionTimeoutException.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncDistinctIterable.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/Operations.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/QueryMessage.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoCursorNotFoundException.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/ServerVersion.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/diagnostics/logging/SLF4JLogger.java
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/DeleteMessage.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/Time.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/FindAndReplaceOperation.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/ReadBinding.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/SocketStreamFactory.java
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/GridFSIndexCheck.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ServerListener.java
 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

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jar/com/mongodb/internal/operation/CommandResultDocumentCodec.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/MongoSocketReadException.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/DeleteOneModel.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/CursorType.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/OpCode.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/management/package-info.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/selector/LatencyMinimizingServerSelector.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/CreateCollectionOperation.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/vault/AsyncClientEncryptionImpl.java

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/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ConnectionPoolOpenedEvent.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncAggregateIterableImpl.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoNodeIsRecoveringException.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncMapReduceIterable.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/DBRefCodecProvider.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncListCollectionsIterableImpl.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/PushOptions.java

*

/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/AsyncClusterBinding.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoDriverInformation.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/DistinctOperation.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ClusterListenerAdapter.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/UpdateOptions.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/SingleConnectionReadBinding.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoWriteException.java

*

/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/CollationAlternate.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/MultiPoint.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/gridfs/GridFSIndexCheckImpl.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/selector/CompositeServerSelector.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/AsyncClusterAwareReadWriteBinding.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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*
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/vault/package-info.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/InternalStreamConnection.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/SocketSettings.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ServerMonitor.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/DBObjectFactory.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/ReplaceOptions.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/Collation.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/MultiServerCluster.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/CommandMarker.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/session/ServerSessionPool.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ExponentiallyWeightedMovingAverage.java

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoSocketException.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/OperationReadConcernHelper.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/SyncOperations.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java

* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 * /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/BsonField.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/assertions/Assertions.java
```

1.314 frocksdbjni 6.20.3-ververica-1.0

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jar/com/google/gson/internal/GsonBuildConfig.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
*

```
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/TypeAdapter.java
*
```

```
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
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jar/com/google/gson/JsonElement.java
```

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java
```

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java
```

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```
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldNamingStrategy.java
```

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/SerializedName.java
```

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
```

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jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonParseException.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/Gson.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/GsonBuilder.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonNull.java
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jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/JsonAdapter.java

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jar/com/google/gson/internal/LinkedHashMap.java
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jar/com/google/gson/internal/LinkedTreeMap.java

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonScope.java
*
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonWriter.java

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java

*

/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/PreJava9DateFormatProvider.java

* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/JavaVersion.java

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jar/com/google/gson/ToNumberPolicy.java

* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/ToNumberStrategy.java

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Streams.java

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldAttributes.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParser.java
```

1.318 dpkg 1.19.7ubuntu3.2

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Ty Coon, President of Vice
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1.319 e2fsprogs 1.45.5-2ubuntu1.1

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

all:: image

real-subdirs:: Makefile

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
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- + Copyright (C) Andrew Tridgell 1999-2005
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```

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```

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Theodore Ts'o
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.320 caffeine 2.9.3

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Found in path(s):

- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LoadingCache.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Weigher.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/UnsafeAccess.java
- *
- /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/StatsCounter.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncLoadingCache.java
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- *
- /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalListener.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheLoader.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Cache.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AbstractLinkedDeque.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/CacheStats.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Ticker.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AccessOrderDeque.java
- * /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedLocalCache.java
- *
- /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Caffeine.java

* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/DisabledStatsCounter.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/base/UnsafeAccess.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalCause.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/SingleConsumerQueue.java

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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java

* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheWriter.java

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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java

* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalCache.java

* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Node.java

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/opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/References.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java
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jar/com/github/benmanes/caffeine/package-info.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/package-info.java
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jar/com/github/benmanes/caffeine/cache/Async.java
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jar/com/github/benmanes/caffeine/cache/LocalAsyncCache.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/AsyncCache.java
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jar/com/github/benmanes/caffeine/cache/TimerWheel.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/Expiry.java
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jar/com/github/benmanes/caffeine/cache/AsyncCacheLoader.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/CaffeineSpec.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMSA.java
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/opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWA.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WLSAWR.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSWR.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDRMW.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMSAW.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PS.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWRMS.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWAW.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WLSLMW.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSAR.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SISMS.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMSR.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSMWA.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMSAR.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLAW.java

* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDMS.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSAWR.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WLSMSW.java
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jar/com/github/benmanes/caffeine/cache/SI.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/FWARMW.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSAWR.java
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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*

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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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*
/opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
jar/com/github/benmanes/caffeine/cache/PSAMS.java
* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-
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jar/com/github/benmanes/caffeine/cache/WLSLWASR.java

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* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-

jar/com/github/benmanes/caffeine/cache/StripedBuffer.java

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jar/com/github/benmanes/caffeine/cache/Scheduler.java

* /opt/cola/permits/1359932647_1657332591.993831/0/caffeine-2-9-3-sources-

jar/com/github/benmanes/caffeine/cache/Pacer.java

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jar/com/github/benmanes/caffeine/cache/MpscGrowArrayQueue.java

1.321 flink-shaded-force-shading 15.0

1.321.1 Available under license :

flink-shaded-netty-openssl-static

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- io.swagger.core.v3:swagger-core:2.1.11
- io.swagger.core.v3:swagger-models:2.1.11
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- com.fasterxml.jackson.core:jackson-core:2.12.4
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- com.fasterxml.jackson.module:jackson-module-jsonSchema:2.12.4
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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.328 jackson 2.13.4

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1.329 jackson-jaxrs 2.13.4

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1.330 pcre 10.34-7ubuntu0.1

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Written by: Philip Hazel

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1.331 chill_2.12 0.7.6

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- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/config/ScalaAnyRefMapConfig.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/ScalaKryoInstantiator.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/EitherSerializer.scala
- *
- /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/ManifestSerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/config/ReflectingInstantiatorBuilder.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/RegexSerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/package.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/ObjectSerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/WrappedArraySerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/Traversable.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/ClassManifestSerializer.scala
- *
- /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/SomeSerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/SingletonSerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/KryoBase.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/SortedSetSerializer.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/config/ScalaMapConfig.scala
- * /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/CleaningSerializer.scala

```
* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/RichKryo.scala
* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/KryoSerializer.scala
* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/BitSetSerializer.scala
*
```

```
/opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/EnumerationSerializer.scala
* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/TupleSerializers.scala
* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/SortedMapSerializer.scala
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* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-
jar/com/twitter/chill/ClosureCleaner.scala
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* /opt/cola/permits/1424688866_1663927569.2536802/0/chill-2-12-0-7-6-sources-jar/com/twitter/chill/MeatLocker.scala

1.332 snake-yaml 1.33

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/**
```

```
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
 * Multi-licensed: EPL / LGPL / GPL / AL / BSD.
 */
```

Found in path(s):

```
* /opt/cola/permits/1427131089_1664278353.0883758/0/snakeyaml-1-33-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
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1.333 pcre 8.39-12ubuntu0.1

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1.334 audit 2.8.5-2ubuntu6

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1.336 jackson-dataformat-xml 2.13.4

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1.337 protobuf-java 3.19.2

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* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/Service.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/UnknownFieldSetSchema.java
*
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* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/InvalidProtocolBufferException.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/GeneratedMessageInfoFactory.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/AllocatedBuffer.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-

```

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* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/Message.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/BinaryReader.java
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* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/timestamp.proto
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/MessageLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ExtensionSchema.java

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* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MapFieldLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/GeneratedMessageLite.java
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* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/NewInstanceSchemaLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/DoubleArrayList.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/Android.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/UnknownFieldSetLiteSchema.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/RepeatedFieldBuilder.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MutabilityOracle.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/DiscardUnknownFieldsParser.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MessageSetSchema.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/LazyFieldLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MapFieldSchemaFull.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/DynamicMessage.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-

```

jar/com/google/protobuf/Utf8.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/MessageInfo.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/UnsafeUtil.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/LazyStringList.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/FieldType.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/empty.proto
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/MessageReflection.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/MessageLiteToString.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/MessageLiteOrBuilder.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/duration.proto
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/SchemaFactory.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/NewInstanceSchema.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/GeneratedMessage.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ExtensionSchemas.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/LongArrayList.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/LazyStringArrayList.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/TextFormatEscaper.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/Descriptors.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/Writer.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/CanIgnoreReturnValue.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ByteOutput.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/MapEntryLite.java
*

```

/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/BinaryWriter.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/BlockingRpcChannel.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/google/protobuf/api.proto
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/BufferAllocator.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/ProtobufLists.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/NewInstanceSchemaFull.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MessageOrBuilder.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MapFieldSchemas.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/ExtensionSchemaLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/Reader.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/UnknownFieldSchema.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/ExperimentalApi.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/NioByteString.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/UnknownFieldSetLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/OneofInfo.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/BooleanArrayList.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/ListFieldSchema.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/Protobuf.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/TypeRegistry.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/WireFormat.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/ExtensionSchemaFull.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/AbstractMessage.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-jar/com/google/protobuf/MapField.java

```

* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/field_mask.proto
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/any.proto
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/RpcCallback.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ExtensionRegistryLite.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/TextFormatParseLocation.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/RpcController.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/FieldSet.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/CodedInputStream.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/type.proto
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ProtobufArrayList.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/JavaType.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/SmallSortedMap.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/Internal.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/SchemaUtil.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/TextFormat.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/RpcUtil.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ByteString.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/RawMessageInfo.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ProtocolStringList.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/CodedOutputStream.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ArrayDecoders.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/google/protobuf/struct.proto
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-

```

```
jar/com/google/protobuf/CheckReturnValue.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/NewInstanceSchemas.java
* /opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/ServiceException.java
*
/opt/cola/permits/1444219947_1666006580.2085533/0/protobuf-java-3-19-2-sources-1-
jar/com/google/protobuf/GeneratedMessageV3.java
```

1.338 jackson-databind 2.13.4.2

1.338.1 Available under license :

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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Jackson 2.x core and extension components are licensed under Apache License 2.0. To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

1.339 zlib 1.2.11.dfsg-2ubuntu1.5

1.339.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
 * Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 * Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
*/opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzclose.c -- zlib gzclose() function
 * Copyright (C) 2004, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

```
*/opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
```

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

* Added ZIP64 support for unzip (by Even Rouault)

- * Added ZIP64 support for zip (by Mathias Svensson)
- * Reverted some changes that Even Rouault did.
- * Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- * Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- * Added BZIP Compress method for zip
- * Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
 Even Rouault - ZIP64 unzip Support
 Daniel Borca - BZIP Compression method support in unzip
 Mathias Svensson - ZIP64 zip support
 Mathias Svensson - BZIP Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>
 Command line tool for Windows that shows the layout and information of the headers in a zip archive.
 Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>
 Zip File specification

Notes.

- * To be able to use BZIP compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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3. This notice may not be removed or altered from any source distribution.

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt

No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

No license file was found, but licenses were detected in source scan.

/*

* gzlog.c

* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

* For conditions of distribution and use, see copyright notice in gzlog.h

* version 2.2, 14 Aug 2012

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm

* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer

* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding

* Copyright (C) 1995-2017 Jean-loup Gailly

* detect_data_type() function provided freely by Cosmin Truta, 2006

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA.

(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library

* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* Adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

* <http://marknelson.us/1997/01/01/zlib-engine/>

* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The `compress` and `deflate` functions produce data in the zlib format, which is different and incompatible with the `gzip` format. The `gz*` functions in zlib on the other hand use the `gzip` format. Both the `zlib` and `gzip` formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along

with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c

* Copyright (C) 1995-2005, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state

* Copyright (C) 1995-2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

/*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.
```

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.
```

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.
```

```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.
```

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support

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For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
```

No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
```

```
Not copyrighted -- provided to the public domain
```

```
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
```

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs' Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>

.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and

zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.
```

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
```

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```
/* inffast.h -- header to use inffast.c
```

```
* Copyright (C) 1995-2003, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
```

No license file was found, but licenses were detected in source scan.

```
/* zran.c -- example of zlib/gzip stream indexing and random access
```

```
* Copyright (C) 2005, 2012 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
```

No license file was found, but licenses were detected in source scan.

```
/* inffback.c -- inflate using a call-back interface
```

```
* Copyright (C) 1995-2016 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffback.c
```

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```
/* gzlog.h
```

```
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```

```
version 2.2, 14 Aug 2012
```

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler */

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files

* Copyright (C) 2004-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage

* Copyright (C) 2011, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

1.340 jackson-jaxrs-xml-provider 2.13.4

1.340.1 Available under license :

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1.341 expat 2.2.9-1ubuntu0.6

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1.342 scala-xml 1.0.6

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1.343 jettison 1.1

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1.344 objenesis 2.1

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1.345 slf4j 2.11.1

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```
// -----  
// List of ignite-slf4j module's dependencies provided as a part of this distribution.  
// -----
```

```
=====  
For SLF4J API Module (http://www.slf4j.org) org.slf4j:slf4j-api:jar:1.7.7  
=====
```

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=====
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1.346 javassist 3.19.0-ga

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* /opt/cola/permits/1553481467_1685118207.7744832/0/javassist-181-jar/META-INF/maven/org.javassist/javassist/pom.xml

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Manifest-Version: 1.0

Ant-Version: Apache Ant 1.9.4

Created-By: Apache Maven Bundle Plugin

Bundle-Description: Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation simple. It is a class library for editing bytecodes in Java.

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Bundle-SymbolicName: javassist

Built-By: chiba

Bundle-ManifestVersion: 2

Bnd-LastModified: 1420514649102

Specification-Vendor: Shigeru Chiba, www.javassist.org

Specification-Title: Javassist

Tool: Bnd-0.0.357

Main-Class: javassist.CtClass

Export-Package: javassist.convert;uses:="javassist.bytecode.analysis,javassist.bytecode.javassist";version="3.19.0.GA",javassist.tools;uses:="javassist.bytecode.javassist.bytecode.analysis.javassist";version="3.19.0.GA",javassist.tools.reflect;uses:="javassist,javassist.bytecode";version="3.19.0.GA",javassist.expr;uses:="javassist.compiler.javassist.bytecode.javassist.compiler.ast.javassist";version="3.19.0.GA",javassist.tools.rmi;uses:="javassist.tools.web.javassist";version="3.19.0.GA",javassist.util;version="3.19.0.GA",javassist.bytecode.analysis;uses:="javassist.bytecode.javassist.javassist.bytecode.stackmap";version="3.19.0.GA",javassist.bytecode.annotation;uses:="javassist.bytecode.javassist";version="3.19.0.GA",javassist.bytecode.stackmap;uses:="javassist.bytecode.javassist";version="3.19.0.GA",javassist.util.proxy;uses:="javassist.bytecode.javassist";version="3.19.0.GA",javassist.compiler;uses:="javassist.bytecode.javassist.javassist.compiler.ast";version="3.19.0.GA",javassist.runtime;version="3.19.0.GA",javassist.bytecode;uses:="javassist.bytecode.annotation,javassist,javassist.bytecode.stackmap";version="3.19.0.GA",javassist.scopedpool;uses:="javassist";version="3.19.0.GA",javassist.compiler.ast;uses:="javassist.compiler.javassist";version="3.19.0.GA",javassist;uses:="javassist.compiler.javassist.bytecode.javassist.convert,javassist.expr,javassist.bytecode.annotation,javassist.compiler.ast";version="3.19.0.GA",javassist.tools.web;uses:="javassist";version="3.19.0.GA"

Bundle-Version: 3.19.0.GA

Bundle-Name: Javassist

Ignore-Package: com.sun.jdi.event,com.sun.jdi,com.sun.jdi.request,com.sun.jdi.connect

Specification-Version: 3.19.0-GA

Build-Jdk: 1.8.0_25

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/opt/cola/permits/1553481467_1685118207.7744832/0/javassist-181-jar/javassist/CtClass.class: binary file matches

Found in path(s):

* /bin/grep

1.347 fastutil 7.0.10

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*/

package PACKAGE;

import java.util.List;

##if ! #keyclass(Reference)

/** A type-specific {@link List}; provides some additional methods that use polymorphism to avoid (un)boxing.

*

* <P>Note that this type-specific interface extends {@link Comparable}: it is expected that implementing

* classes perform a lexicographical

comparison using the standard operator "less than" for primitive types,

* and the usual {@link Comparable#compareTo(Object) compareTo()} method for objects.

*

* <P>Additionally, this interface strengthens {@link #listIterator()},

* {@link #listIterator(int)} and {@link #subList(int,int)}.

*

* <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous

* sublists. Although the abstract implementation of this interface provides simple, one-by-one implementations

* of these methods, it is expected that concrete implementation override them with optimized versions.

*

* @see List

```

*/

public interface LIST KEY_GENERIC extends List<KEY_GENERIC_CLASS>, Comparable<List<? extends
KEY_GENERIC_CLASS>>, COLLECTION KEY_GENERIC {
#else

/** A type-specific {@link List}; provides some additional methods that use polymorphism to avoid (un)boxing.
*
* <P>Additionally, this interface strengthens {@link #iterator()}, {@link #listIterator()},
* {@link #listIterator(int)} and {@link #subList(int,int)}. The former had been already
* strengthened upstream, but unfortunately {@link List} re-specifies it.
*
* <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
* sublists. Although the abstract implementation of this interface provides simple, one-by-one implementations
* of these methods, it is expected that concrete implementation override them with optimized versions.
*
* @see List
*/

public interface LIST KEY_GENERIC extends List<KEY_GENERIC_CLASS>, COLLECTION KEY_GENERIC
{
#endif

/** Returns a type-specific iterator on the elements of this list (in proper sequence).
*
* Note that this specification strengthens the one given in {@link List#iterator()}.
* It would not be normally necessary, but {@link java.lang.Iterable#iterator()} is bizarrely re-specified
* in {@link List}.
*
* @return an iterator on the elements of this list (in proper
sequence).
*/
KEY_LIST_ITERATOR KEY_GENERIC iterator();

/** Returns a type-specific list iterator on the list.
*
* @see #listIterator()
* @deprecated As of <code>fastutil</code> 5, replaced by {@link #listIterator()}.
*/
@Deprecated
KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD();

/** Returns a type-specific list iterator on the list starting at a given index.
*
* @see #listIterator(int)
* @deprecated As of <code>fastutil</code> 5, replaced by {@link #listIterator(int)}.
*/
@Deprecated

```

```
KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD( int index );
```

```
/** Returns a type-specific list iterator on the list.
```

```
*
```

```
* @see List#listIterator()
```

```
*/
```

```
KEY_LIST_ITERATOR KEY_GENERIC listIterator();
```

```
/** Returns a type-specific list iterator on the list starting at a given index.
```

```
*
```

```
* @see List#listIterator(int)
```

```
*/
```

```
KEY_LIST_ITERATOR KEY_GENERIC listIterator( int index );
```

```
/** Returns a type-specific view of the portion of this list from the index
```

```
<code>from</code>, inclusive, to the index <code>to</code>, exclusive.
```

```
* @see List#subList(int,int)
```

```
* @deprecated As of <code>fastutil</code> 5, replaced by { @link #subList(int,int)}.
```

```
*/
```

```
@Deprecated
```

```
LIST KEY_GENERIC SUBLIST_METHOD( int from, int to );
```

```
/** Returns a type-specific view of the portion of this list from the index <code>from</code>, inclusive, to the  
index <code>to</code>, exclusive.
```

```
*
```

```
* <P>Note that this specification strengthens the one given in { @link List#subList(int,int)}.
```

```
*
```

```
* @see List#subList(int,int)
```

```
*/
```

```
LIST KEY_GENERIC subList(int from, int to);
```

```
/** Sets the size of this list.
```

```
*
```

```
* <P>If the specified size is smaller than the current size, the last elements are
```

```
* discarded. Otherwise, they are filled with 0/<code>>null</code>/<code>>false</code>.
```

```
*
```

```
* @param size the new size.
```

```
*/
```

```
void size( int size );
```

```
/** Copies (hopefully quickly) elements of this type-specific list into the given array.
```

```
*
```

```
* @param from the start index (inclusive).
```

```
* @param a the destination array.
```

```
* @param offset the offset into the destination array where to store the first element copied.
```

```

* @param length the number of elements to be copied.
*/
void getElements( int from, KEY_TYPE a[], int offset, int length );

/** Removes (hopefully quickly) elements of this type-specific list.
*
* @param from the start index (inclusive).
* @param to the end index (exclusive).
*/
void removeElements( int from, int to );

/** Add (hopefully quickly) elements to this type-specific list.
*
* @param index the index at which to add elements.
* @param a the array containing the elements.
*/
void addElements( int index, KEY_GENERIC_TYPE a[] );

/** Add (hopefully quickly) elements to this type-specific list.
*
* @param index the index at which to add elements.
* @param a the array containing the elements.
* @param offset the offset of the first element to add.
* @param length the number of elements to add.
*/
void
addElements( int index, KEY_GENERIC_TYPE a[], int offset, int length );

#if #keys(primitive)

/**
* @see List#add(Object)
*/
boolean add( KEY_TYPE key );

/**
* @see List#add(int,Object)
*/
void add( int index, KEY_TYPE key );

/**
* @see List#add(int,Object)
*/
boolean addAll( int index, COLLECTION c );

/**
* @see List#add(int,Object)
*/

```

```

boolean addAll( int index, LIST c );

/**
 * @see List#add(int,Object)
 */
boolean addAll( LIST c );

/**
 * @see List#get(int)
 */
KEY_TYPE GET_KEY( int index );

/**
 * @see List#indexOf(Object)
 */
int indexOf( KEY_TYPE k );

/**
 * @see List#lastIndexOf(Object)
 */
int lastIndexOf( KEY_TYPE k );

/**
 * @see List#remove(int)
 */
KEY_TYPE REMOVE_KEY( int index );

/**
 * @see List#set(int,Object)
 */
KEY_TYPE set( int index, KEY_TYPE k );

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/List.drv

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```

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 *

```

```

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* limitations under the License.
*/

```

```
package PACKAGE;
```

```
import java.util.Set;
```

```
/** An abstract class providing basic methods for sets implementing a type-specific interface. */
```

```
public abstract class ABSTRACT_SET KEY_GENERIC extends ABSTRACT_COLLECTION KEY_GENERIC
implements Cloneable, SET KEY_GENERIC {
```

```
    protected ABSTRACT_SET() {}
```

```
    public abstract
    KEY_ITERATOR KEY_GENERIC iterator();
```

```
    public boolean equals( final Object o ) {
        if ( o == this ) return true;
        if ( !( o instanceof Set ) ) return false;
```

```
        Set<?> s = (Set<?>) o;
        if ( s.size() != size() ) return false;
        return containsAll(s);
    }
```

```
/** Returns a hash code for this set.
```

```

*
* The hash code of a set is computed by summing the hash codes of
* its elements.
*
* @return a hash code for this set.
*/
```

```
public int hashCode() {
    int h = 0, n = size();
    KEY_ITERATOR KEY_GENERIC i = iterator();
    KEY_GENERIC_TYPE k;
```

```
    while( n-- != 0 ) {
```

```
k = i.NEXT_KEY(); // We need k because KEY2JAVAHASH() is a macro with repeated evaluation.
h += KEY2JAVAHASH( k );
}
return h;
}
```

```
public boolean remove( KEY_TYPE k ) {
    throw new UnsupportedOperationException();
}
```

```
#if #keys(primitive)
```

```
/** Delegates to <code>remove()</code>.
```

```
*
```

```
* @param k the element to be removed.
```

```
* @return true if the set was modified.
```

```
*/
```

```
public boolean rem( KEY_TYPE k ) {
    return
    remove( k );
}
```

```
/** Delegates to the corresponding type-specific method. */
```

```
public boolean remove( final Object o ) {
    return remove( KEY_OBJ2TYPE( o ) );
}
```

```
#endif
```

```
}
```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractSet.drv

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```
/*
```

```
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```

```
*
```

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```

* limitations under the License.

*/

```
package PACKAGE;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;  
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;  
import VALUE_PACKAGE.VALUE_ITERATOR;  
import VALUE_PACKAGE.VALUE_ABSTRACT_ITERATOR;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSet;
```

```
#if #keys(primitive) && #values(primitive)  
import it.unimi.dsi.fastutil.objects.ObjectIterator;  
#endif
```

```
import  
java.util.Iterator;  
import java.util.Map;
```

```
/** An abstract class providing basic methods for maps implementing a type-specific interface.
```

```
*
```

```
* <P>Optional operations just throw an { @link  
* UnsupportedOperationException}. Generic versions of accessors delegate to  
* the corresponding type-specific counterparts following the interface rules  
* (they take care of returning <code>null</code> on a missing key).
```

```
*
```

```
* <P>As a further help, this class provides a { @link BasicEntry BasicEntry} inner class  
* that implements a type-specific version of { @link java.util.Map.Entry}; it  
* is particularly useful for those classes that do not implement their own  
* entries (e.g., most immutable maps).
```

```
*/
```

```
public abstract class ABSTRACT_MAP KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION  
KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable {
```

```
private static final long serialVersionUID = -4940583368468432370L;
```

```
protected ABSTRACT_MAP() {}
```

```
#if #values(primitive)  
public  
boolean containsValue( Object ov ) {  
    return containsValue( VALUE_OBJ2TYPE( ov ) );  
}  
#endif
```

```

/** Checks whether the given value is contained in {@link #values()}. */
public boolean containsValue( VALUE_TYPE v ) {
    return values().contains( v );
}

/** Checks whether the given value is contained in {@link #keySet()}. */
public boolean containsKey( KEY_TYPE k ) {
    return keySet().contains( k );
}

/** Puts all pairs in the given map.
 * If the map implements the interface of this map,
 * it uses the faster iterators.
 *
 * @param m a map.
 */
#if #keys(primitive) && #values(primitive)
    @SuppressWarnings("deprecation")
#elif #keys(primitive) ^ #values(primitive)
    @SuppressWarnings({"unchecked","deprecation"})
#endif
public void putAll(Map<? extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS> m) {
    int n = m.size();
    final Iterator<? extends Map.Entry<? extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS>> i
= m.entrySet().iterator();

    if
(m instanceof MAP) {
        MAP.Entry KEY_VALUE_EXTENDS_GENERIC e;
        while(n-- != 0) {
            e = (MAP.Entry KEY_VALUE_EXTENDS_GENERIC)i.next();
            put(e.ENTRY_GET_KEY(), e.ENTRY_GET_VALUE());
        }
    }
    else {
        Map.Entry<? extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS> e;
        while(n-- != 0) {
            e = i.next();
            put(e.getKey(), e.getValue());
        }
    }
}

public boolean isEmpty() {
    return size() == 0;
}

```

/** This class provides a basic but complete type-specific entry class for all those maps implementations

```
* that do not have entries on their own (e.g., most immutable maps).
*
* <P>This class does not implement { @link java.util.Map.Entry#setValue(Object) setValue()}, as the modification
* would not be reflected in the base map.
*/
```

```
public static class BasicEntry KEY_VALUE_GENERIC implements MAP.Entry KEY_VALUE_GENERIC {
    protected KEY_GENERIC_TYPE key;
    protected VALUE_GENERIC_TYPE value;
```

```
    public BasicEntry( final KEY_GENERIC_CLASS key, final VALUE_GENERIC_CLASS
value ) {
        this.key = KEY_CLASS2TYPE(key);
        this.value = VALUE_CLASS2TYPE(value);
    }
```

```
#if #keys(primitive) || #values(primitive)
```

```
    public BasicEntry( final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value ) {
        this.key = key;
        this.value = value;
    }
```

```
#endif
```

```
#if #keys(primitive)
```

```
    /** { @inheritDoc }
```

```
    * @deprecated Please use the corresponding type-specific method instead. */
```

```
    @Deprecated
```

```
#endif
```

```
    public KEY_GENERIC_CLASS getKey() {
        return KEY2OBJ(key);
    }
```

```
#if #keys(primitive)
```

```
    public KEY_TYPE ENTRY_GET_KEY() {
```

```
        return key;
```

```
    }
```

```
#endif
```

```
#if #values(primitive)
```

```
    /** { @inheritDoc }
```

```
    * @deprecated Please use the corresponding type-specific method instead. */
```

```
    @Deprecated
```

```
#endif
```

```
    public VALUE_GENERIC_CLASS getValue() {
        return VALUE2OBJ(value);
    }
```

```

#if #values(primitive)
    public VALUE_TYPE ENTRY_GET_VALUE() {
        return value;
    }
#endif

    public VALUE_GENERIC_TYPE setValue( final VALUE_GENERIC_TYPE value ) {
        throw new UnsupportedOperationException();
    }

#if #values(primitive)
    /** {@inheritDoc}
     * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    public VALUE_GENERIC_CLASS setValue( final VALUE_GENERIC_CLASS value ) {
        return VALUE_CLASS.valueOf(setValue(value.VALUE_VALUE()));
    }
#endif

    public boolean equals( final Object o ) {
        if (!(o instanceof Map.Entry)) return false;
        Map.Entry<?,?> e = (Map.Entry<?,?>)o;

        return KEY_EQUALS( key, KEY_OBJ2TYPE( e.getKey() ) ) && VALUE_EQUALS( value,
VALUE_OBJ2TYPE( e.getValue() ) );
    }

    public int hashCode() {
        return KEY2JAVAHASH(key) ^ VALUE2JAVAHASH(value);
    }

    public String toString() {
        return key + "->" + value;
    }
}

/** Returns a type-specific-set view of the keys of this map.
 *
 * <P>The view is backed by the set returned by { @link #entrySet()}. Note that
 * <em>no attempt is made at caching the result of this method</em>, as this would
 * require adding some attributes
 * that lightweight implementations would
 * not need. Subclasses may easily override this policy by calling

```

```

* this method and caching the result, but implementors are encouraged to
* write more efficient ad-hoc implementations.
*
* @return a set view of the keys of this map; it may be safely cast to a type-specific interface.
*/

public SET KEY_GENERIC keySet() {
return new ABSTRACT_SET KEY_GENERIC() {

    public boolean contains( final KEY_TYPE k ) { return containsKey( k ); }

    public int size() { return ABSTRACT_MAP.this.size(); }
    public void clear() { ABSTRACT_MAP.this.clear(); }

    public KEY_ITERATOR KEY_GENERIC iterator() {
return new KEY_ABSTRACT_ITERATOR KEY_GENERIC() {
    final ObjectIterator<Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i = entrySet().iterator();

    /** {@inheritDoc}
    * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    public KEY_GENERIC_TYPE NEXT_KEY()
{ return ((MAP.Entry KEY_VALUE_GENERIC)i.next()).ENTRY_GET_KEY(); };

    public boolean hasNext() { return i.hasNext(); }
    };
}
};
}

/** Returns a type-specific-set view of the values of this map.
*
* <P>The view is backed by the set returned by {@link #entrySet()}. Note that
* <em>no attempt is made at caching the result of this method</em>, as this would
* require adding some attributes that lightweight implementations would
* not need. Subclasses may easily override this policy by calling
* this method and caching the result, but implementors are encouraged to
* write more efficient ad-hoc implementations.
*
* @return a set view of the values of this map; it may be safely cast to a type-specific interface.
*/

public VALUE_COLLECTION VALUE_GENERIC values() {
return new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {

    public boolean contains( final VALUE_TYPE k ) { return containsValue( k ); }

```

```

public int size() { return ABSTRACT_MAP.this.size();
}
public void clear() { ABSTRACT_MAP.this.clear(); }

public VALUE_ITERATOR VALUE_GENERIC iterator() {
return new VALUE_ABSTRACT_ITERATOR VALUE_GENERIC() {
    final ObjectIterator<Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i = entrySet().iterator();

    /** {@inheritDoc}
    * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    public VALUE_GENERIC_TYPE NEXT_VALUE() { return ((MAP.Entry
KEY_VALUE_GENERIC)i.next()).ENTRY_GET_VALUE(); };

    public boolean hasNext() { return i.hasNext(); }
};
}
};
}

@SuppressWarnings({ "unchecked", "rawtypes" })
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() {
return (ObjectSet)ENTRYSET();
}

/** Returns a hash code for this map.
*
* The hash code of a map is computed by summing the hash codes of its entries.
*
* @return a hash code for this map.
*/

public int hashCode() {
int h = 0, n = size();
final
ObjectIterator<? extends Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i =
entrySet().iterator();

while( n-- != 0 ) h += i.next().hashCode();
return h;
}

public boolean equals(Object o) {
if ( o == this ) return true;

```

```

if ( ! ( o instanceof Map ) ) return false;

Map<?,?> m = (Map<?,?>)o;
if ( m.size() != size() ) return false;
return entrySet().containsAll( m.entrySet() );
}

public String toString() {
    final StringBuilder s = new StringBuilder();
    final ObjectIterator<? extends Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i =
entrySet().iterator();
    int n = size();
    MAP.Entry KEY_VALUE_GENERIC e;
    boolean first = true;

    s.append("{");

    while(n-- != 0) {
        if (first) first = false;
        else s.append(", ");

        e = (MAP.Entry KEY_VALUE_GENERIC)i.next();

        #if #keys(reference)
        if (this == e.getKey()) s.append("(this map)"); else
        #endif
        s.append(String.valueOf(e.ENTRY_GET_KEY()));
        s.append("=>");
        #if #values(reference)
        if
        (this == e.getValue()) s.append("(this map)"); else
        #endif
        s.append(String.valueOf(e.ENTRY_GET_VALUE()));
    }

    s.append("}");
    return s.toString();
}

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractMap.drv

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
/** A simple, brute-force implementation of a set based on a backing array.
```

```
*/
```

```
*/ <p>The main purpose of this
```

```
*/ implementation is that of wrapping cleanly the brute-force approach to the storage of a very
```

```
*/ small number of items: just put them into an array and scan
```

```
linearly to find an item.
```

```
*/
```

```
public class ARRAY_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable {
```

```
private static final long serialVersionUID = 1L;
```

```
/** The backing array (valid up to {@link #size}, excluded). */
```

```
private transient KEY_TYPE[] a;
```

```
/** The number of valid entries in {@link #a}. */
```

```
private int size;
```

```
/** Creates a new array set using the given backing array. The resulting set will have as many elements as the array.
```

```
*/
```

```
*/ <p>It is responsibility of the caller that the elements of <code>a</code> are distinct.
```

```
*/
```

```
*/ @param a the backing array.
```

```
*/
```

```
public ARRAY_SET( final KEY_TYPE[] a ) {
```

```
    this.a = a;
```

```
    size = a.length;
```

```
}
```

```

/** Creates a new empty array set.
 */
public ARRAY_SET() {
    this.a = ARRAYS.EMPTY_ARRAY;
}

/** Creates a new empty array set of given initial capacity.
 *
 * @param capacity the initial capacity.
 */
public ARRAY_SET( final int capacity ) {
    this.a = new KEY_TYPE[ capacity ];
}

/**
Creates a new array set copying the contents of a given collection.
 * @param c a collection.
 */
public ARRAY_SET( COLLECTION KEY_GENERIC c ) {
    this( c.size () );
    addAll( c );
}

/** Creates a new array set copying the contents of a given set.
 * @param c a collection.
 */
public ARRAY_SET( final Collection<? extends KEY_GENERIC_CLASS> c ) {
    this( c.size() );
    addAll( c );
}

/** Creates a new array set using the given backing array and the given number of elements of the array.
 *
 * <p>It is responsibility of the caller that the first <code>size</code> elements of <code>a</code> are distinct.
 *
 * @param a the backing array.
 * @param size the number of valid elements in <code>a</code>.
 */
public ARRAY_SET( final KEY_TYPE[] a, final int size ) {
    this.a = a;
    this.size = size;
    if ( size > a.length ) throw new IllegalArgumentException( "The provided size (" + size + ") is larger than or equal
to the array size (" + a.length + ")" );
}

private int

```

```

findKey( final KEY_TYPE o ) {
    for( int i = size; i-- != 0; ) if ( KEY_EQUALS( a[ i ], o ) ) return i;
    return -1;
}

@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_ITERATOR KEY_GENERIC iterator() {
    return ITERATORS.wrap( KEY_GENERIC_ARRAY_CAST a, 0, size );
}

public boolean contains( final KEY_TYPE k ) {
    return findKey( k ) != -1;
}

public int size() {
    return size;
}

@Override
public boolean remove( final KEY_TYPE k ) {
    final int pos = findKey( k );
    if ( pos == -1 ) return false;
    final int tail = size - pos - 1;
    for( int i = 0; i < tail; i++ ) a[ pos + i ] = a[ pos + i + 1 ];
    size--;
#ifdef #keys(reference)
    a[ size ] = null;
#endif
    return true;
}

@Override
public boolean add( final KEY_GENERIC_TYPE k ) {
    final int pos = findKey( k );
    if ( pos != -1 ) return false;
    if ( size == a.length ) {
        final KEY_TYPE[] b = new KEY_TYPE[ size == 0 ? 2 : size * 2 ];
        for( int i = size; i-- != 0; ) b[ i ] = a[ i ];
        a = b;
    }
    a[ size++ ]
    = k;
    return true;
}

@Override
public void clear() {

```

```

#if #keys(reference)
    for( int i = size; i-- != 0; ) a[ i ] = null;
#endif
    size = 0;
}

@Override
public boolean isEmpty() {
    return size == 0;
}

/** Returns a deep copy of this set.
 *
 * <P>This method performs a deep copy of this hash set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_SET KEY_GENERIC clone() {
    ARRAY_SET KEY_GENERIC c;
    try {
        c = (ARRAY_SET KEY_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }
    c.a = a.clone();
    return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    s.defaultWriteObject();
    for( int i = 0; i < size; i++ ) s.WRITE_KEY( a[ i ] );
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException,
ClassNotFoundException {
    s.defaultReadObject();
    a = new KEY_TYPE[ size ];
    for( int i = 0; i < size; i++ ) a[ i ] = s.READ_KEY();
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArraySet.drv

No license file was found, but licenses were detected in source scan.

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*/

package PACKAGE;

import java.util.Arrays;

import java.util.Random;

import it.unimi.dsi.fastutil.BigArrays;

import it.unimi.dsi.fastutil.Hash;

import static it.unimi.dsi.fastutil.BigArrays.start;

import static it.unimi.dsi.fastutil.BigArrays.segment;

import static it.unimi.dsi.fastutil.BigArrays.displacement;

import static it.unimi.dsi.fastutil.BigArrays.SEGMENT_MASK;

import static it.unimi.dsi.fastutil.BigArrays.SEGMENT_SIZE;

#if #keys(primitive)

#if ! #keyclass(Byte) && ! #keyclass(Boolean)

```

import it.unimi.dsi.fastutil.bytes.ByteBigArrays;
#endif

/** A class providing static methods and objects that do useful things with {@linkplain BigArrays big arrays}.
 *
 * <p>In particular, the ensureCapacity(), grow(),
 * trim() and setLength() methods allow to handle
 * big arrays much like array lists.
 *
 * <P>Note that {@link it.unimi.dsi.fastutil.io.BinIO} and {@link it.unimi.dsi.fastutil.io.TextIO}
 * contain several methods that make it possible to load and save big arrays of primitive types as sequences
 * of elements in {@link java.io.DataInput} format (i.e., not as objects) or as sequences of lines of text.
 *
 * @see BigArrays
 */

public class BIG_ARRAYS {

#else

import java.util.Comparator;

/** A class providing static methods and objects that do useful things with {@linkplain BigArrays big arrays}.
 *
 * <p>In particular, the ensureCapacity(), grow(),
 * trim() and setLength() methods allow to handle
 * arrays much like array lists.
 *
 * <P>Note that {@link it.unimi.dsi.fastutil.io.BinIO} and {@link it.unimi.dsi.fastutil.io.TextIO}
 * contain several methods make it possible to load and save big arrays of
 * primitive types as sequences
 * of elements in {@link java.io.DataInput} format (i.e., not as objects) or as sequences of lines of text.
 *
 * <P><strong>Warning:</strong> creating arrays
 * using {@linkplain java.lang.reflect.Array#newInstance(Class,int) reflection}, as it
 * happens in {@link #ensureCapacity(Object[][],long,long)} and {@link #grow(Object[][],long,long)},
 * is significantly slower than using new. This phenomenon is particularly
 * evident in the first growth phases of an array reallocated with doubling (or similar) logic.
 *
 * @see BigArrays
 */

public class BIG_ARRAYS {

#endif

private BIG_ARRAYS() {}

/** A static, final, empty big array. */

```

```

public final static KEY_TYPE[][] EMPTY_BIG_ARRAY = {};

/** Returns the element of the given big array of specified index.
 *
 * @param array a big array.
 * @param index a position in the big array.
 * @return the element of the big array at the specified position.
 */
public static KEY_GENERIC
KEY_GENERIC_TYPE get( final KEY_GENERIC_TYPE[][] array, final long index ) {
    return array[ segment( index ) ][ displacement( index ) ];
}

/** Sets the element of the given big array of specified index.
 *
 * @param array a big array.
 * @param index a position in the big array.
 * @param value the new value for the array element at the specified position.
 */
public static KEY_GENERIC void set( final KEY_GENERIC_TYPE[][] array, final long index,
KEY_GENERIC_TYPE value ) {
    array[ segment( index ) ][ displacement( index ) ] = value;
}

/** Swaps the element of the given big array of specified indices.
 *
 * @param array a big array.
 * @param first a position in the big array.
 * @param second a position in the big array.
 */
public static KEY_GENERIC void swap( final KEY_GENERIC_TYPE[][] array, final long first, final long second )
{
    final KEY_GENERIC_TYPE t = array[ segment( first ) ][ displacement( first ) ];
    array[ segment( first ) ][ displacement( first
) ] = array[ segment( second ) ][ displacement( second ) ];
    array[ segment( second ) ][ displacement( second ) ] = t;
}

#if #keys(primitive) && ! #keyclass(Boolean)
/** Adds the specified increment the element of the given big array of specified index.
 *
 * @param array a big array.
 * @param index a position in the big array.
 * @param incr the increment
 */
public static void add( final KEY_GENERIC_TYPE[][] array, final long index, KEY_GENERIC_TYPE incr ) {
    array[ segment( index ) ][ displacement( index ) ] += incr;
}

```

```

/** Multiplies by the specified factor the element of the given big array of specified index.
 *
 * @param array a big array.
 * @param index a position in the big array.
 * @param factor the factor
 */
public static void mul( final KEY_GENERIC_TYPE[][] array, final long index, KEY_GENERIC_TYPE factor ) {
    array[ segment( index ) ][ displacement( index ) ] *= factor;
}

/** Increments the element of the given big array of specified index.
 *
 * @param array a big array.
 * @param index a position in the big array.
 */
public static void incr( final KEY_GENERIC_TYPE[][] array, final long index ) {
    array[ segment( index ) ][ displacement( index ) ]++;
}

/** Decrements the element of the given big array of specified index.
 *
 * @param array a big array.
 * @param index a position in the big array.
 */
public static void decr( final KEY_GENERIC_TYPE[][] array, final long index ) {
    array[ segment( index ) ][ displacement( index ) ]--;
}

#endif

/** Returns the length of the given big array.
 *
 * @param array a big array.
 * @return the length of the given big array.
 */
public static KEY_GENERIC long length( final KEY_GENERIC_TYPE[][] array ) {
    final int length = array.length;
    return length == 0 ? 0 : start( length - 1 ) + array[ length - 1 ].length;
}

/** Copies a big array from the specified source big array, beginning at the specified position, to the specified
position of the destination
big array.
 * Handles correctly overlapping regions of the same big array.

```

```

*
* @param srcArray the source big array.
* @param srcPos the starting position in the source big array.
* @param destArray the destination big array.
* @param destPos the starting position in the destination data.
* @param length the number of elements to be copied.
*/
public static KEY_GENERIC void copy( final KEY_GENERIC_TYPE[][] srcArray, final long srcPos, final
KEY_GENERIC_TYPE[][] destArray, final long destPos, long length ) {
    if ( destPos <= srcPos ) {
        int srcSegment = segment( srcPos );
        int destSegment = segment( destPos );
        int srcDispl = displacement( srcPos );
        int destDispl = displacement( destPos );
        int l;
        while( length > 0 ) {
            l = (int)Math.min( length, Math.min( srcArray[ srcSegment ].length - srcDispl, destArray[ destSegment ].length -
destDispl ) );
            System.arraycopy( srcArray[ srcSegment ], srcDispl, destArray[ destSegment ], destDispl, l );
            if
            ( ( srcDispl += 1 ) == SEGMENT_SIZE ) {
                srcDispl = 0;
                srcSegment++;
            }
            if ( ( destDispl += 1 ) == SEGMENT_SIZE ) {
                destDispl = 0;
                destSegment++;
            }
            length -= l;
        }
    }
    else {
        int srcSegment = segment( srcPos + length );
        int destSegment = segment( destPos + length );
        int srcDispl = displacement( srcPos + length );
        int destDispl = displacement( destPos + length );
        int l;
        while( length > 0 ) {
            if ( srcDispl == 0 ) {
                srcDispl = SEGMENT_SIZE;
                srcSegment--;
            }
            if ( destDispl == 0 ) {
                destDispl = SEGMENT_SIZE;
                destSegment--;
            }
            l = (int)Math.min( length, Math.min( srcDispl, destDispl ) );
            System.arraycopy( srcArray[ srcSegment ], srcDispl - l, destArray[ destSegment ], destDispl - l, l );

```

```

    srcDispl -= 1;
    destDispl -= 1;
    length -= 1;
}
}
}

/** Copies a big array from the specified source big array, beginning at the specified position, to the specified
position of the destination
array.
*
* @param srcArray the source big array.
* @param srcPos the starting position in the source big array.
* @param destArray the destination array.
* @param destPos the starting position in the destination data.
* @param length the number of elements to be copied.
*/
public static KEY_GENERIC void copyFromBig( final KEY_GENERIC_TYPE[][] srcArray, final long srcPos,
final KEY_GENERIC_TYPE[] destArray, int destPos, int length ) {
    int srcSegment = segment( srcPos );
    int srcDispl = displacement( srcPos );
    int l;
    while( length > 0 ) {
        l = Math.min( srcArray[ srcSegment ].length - srcDispl, length );
        System.arraycopy( srcArray[ srcSegment ], srcDispl, destArray, destPos, l );
        if ( ( srcDispl += l ) == SEGMENT_SIZE ) {
            srcDispl = 0;
            srcSegment++;
        }
        destPos += l;
        length -= l;
    }
}

/** Copies an array from the specified source array, beginning at the specified position, to the specified position of
the destination big array.
*
* @param srcArray the source array.
* @param srcPos the starting position in the source array.
* @param destArray the destination big array.
* @param destPos the starting position in the destination data.
* @param length the number of elements to be copied.
*/
public static KEY_GENERIC void copyToBig( final KEY_GENERIC_TYPE[] srcArray, int srcPos, final
KEY_GENERIC_TYPE[][] destArray, final long destPos, long length ) {
    int destSegment = segment( destPos );
    int destDispl = displacement( destPos );

```

```

int l;
while( length > 0 ) {
    l = (int)Math.min( destArray[ destSegment ].length - destDispl, length );
    System.arraycopy( srcArray, srcPos, destArray[ destSegment ], destDispl, l );
    if ( ( destDispl += l ) == SEGMENT_SIZE ) {
        destDispl = 0;
        destSegment++;
    }
    srcPos += l;
    length -= l;
}
}

```

```

#if #keyclass(Object)

```

```

/** Creates a new big array using the given one as prototype.

```

```

*

```

```

* <P>This method returns a new big array of the given length
whose element

```

```

* are of the same class as of those of <code>prototype</code>. In case

```

```

* of an empty big array, it tries to return { @link #EMPTY_BIG_ARRAY }, if possible.

```

```

*

```

```

* @param prototype a big array that will be used to type the new one.

```

```

* @param length the length of the new big array.

```

```

* @return a new big array of given type and length.

```

```

*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static <K> K[][] newBigArray( final K[][] prototype, final long length ) {
    return (K[][])newBigArray( prototype.getClass().getComponentType(), length );
}

```

```

/** Creates a new big array using a the given one as component type.

```

```

*

```

```

* <P>This method returns a new big array whose segments

```

```

* are of class <code>componentType</code>. In case

```

```

* of an empty big array, it tries to return { @link #EMPTY_BIG_ARRAY }, if possible.

```

```

*

```

```

* @param componentType a class representing the type of segments of the array to be created.

```

```

* @param length the length of the new big array.

```

```

* @return a

```

```

new big array of given type and length.

```

```

*/

```

```

private static Object[][] newBigArray( Class<?> componentType, final long length ) {
    if ( length == 0 && componentType == Object[].class ) return EMPTY_BIG_ARRAY;
    final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
    Object[][] base = (Object[][])java.lang.reflect.Array.newInstance( componentType, baseLength );
    final int residual = (int)(length & SEGMENT_MASK);

```

```

if ( residual != 0 ) {
    for( int i = 0; i < baseLength - 1; i++ ) base[ i ] = (Object[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), SEGMENT_SIZE );
    base[ baseLength - 1 ] = (Object[])java.lang.reflect.Array.newInstance( componentType.getComponentType(),
residual );
}
else for( int i = 0; i < baseLength; i++ ) base[ i ] = (Object[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), SEGMENT_SIZE );

return base;
}
#endif

```

```

/** Creates a new big array.

```

```

*

```

```

* @param length the length of the new big array.

```

```

* @return a new big array of given length.

```

```

*/

```

```

public static KEY_TYPE[][] newBigArray( final long length ) {
if ( length == 0 ) return EMPTY_BIG_ARRAY;
final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
KEY_TYPE[][] base = new KEY_TYPE[ baseLength ][];
final int residual = (int)(length & SEGMENT_MASK);
if ( residual != 0 ) {
    for( int i = 0; i < baseLength - 1; i++ ) base[ i ] = new KEY_TYPE[ SEGMENT_SIZE ];
    base[ baseLength - 1 ] = new KEY_TYPE[ residual ];
}
else for( int i = 0; i < baseLength; i++ ) base[ i ] = new KEY_TYPE[ SEGMENT_SIZE ];

return base;
}

```

```

#if #keyclass(Object)

```

```

/** Turns a standard array into a big array.

```

```

*

```

```

* <P>Note that the returned big array might contain as a segment the original array.

```

```

*

```

```

* @param array an array.

```

```

* @return a new big array with the same length and content of <code>array</code>.

```

```

*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static <K> K[][] wrap( final K[] array ) {
if ( array.length
== 0 && array.getClass() == Object[].class ) return KEY_GENERIC_BIG_ARRAY_CAST
EMPTY_BIG_ARRAY;

```

```

if ( array.length <= SEGMENT_SIZE ) {
    final K[][] bigArray = (K[][])java.lang.reflect.Array.newInstance( array.getClass(), 1 );
    bigArray[ 0 ] = array;
    return bigArray;
}
final K[][] bigArray = (K[][])newBigArray( array.getClass(), array.length );
for( int i = 0; i < bigArray.length; i++ ) System.arraycopy( array, (int)start( i ), bigArray[ i ], 0, bigArray[ i ].length
);
return bigArray;
}

#else
/** Turns a standard array into a big array.
 *
 * <P>Note that the returned big array might contain as a segment the original array.
 *
 * @param array an array.
 * @return a new big array with the same length and content of <code>array</code>.
 */

public static KEY_TYPE[][] wrap( final KEY_TYPE[] array ) {
    if ( array.length == 0 ) return EMPTY_BIG_ARRAY;
    if ( array.length <= SEGMENT_SIZE ) return new KEY_TYPE[][] { array };
    final KEY_TYPE[][] bigArray = newBigArray(
array.length );
    for( int i = 0; i < bigArray.length; i++ ) System.arraycopy( array, (int)start( i ), bigArray[ i ], 0, bigArray[ i ].length
);
    return bigArray;
}
#endif
/** Ensures that a big array can contain the given number of entries.
 *
 * <P>If you cannot foresee whether this big array will need again to be
 * enlarged, you should probably use <code>grow()</code> instead.
 *
 * <p><strong>Warning:</strong> the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new minimum length for this big array.
 * @return <code>array</code>, if it contains <code>length</code> entries or more; otherwise,
 * a big array with <code>length</code> entries whose first <code>length(array)</code>
 * entries are the same as those of <code>array</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[][] ensureCapacity( final KEY_GENERIC_TYPE[][]
array, final long length ) {
    return ensureCapacity( array, length, length( array ) );
}

```

```

#if #keyclass(Object)

/** Ensures that a big array can contain the given number of entries, preserving just a part of the big array.
 *
 * <P>This method returns a new big array of the given length whose element
 * are of the same class as of those of <code>array</code>.
 *
 * <p><strong>Warning:</strong> the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new minimum length for this big array.
 * @param preserve the number of elements of the big array that must be preserved in case a new allocation is
necessary.
 * @return <code>array</code>, if it can contain <code>length</code> entries or more; otherwise,
 * a big array with <code>length</code> entries whose first <code>preserve</code>
 * entries are the same as those of <code>array</code>.

 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC KEY_GENERIC_TYPE[][] ensureCapacity( final KEY_GENERIC_TYPE[][] array,
final long length, final long preserve ) {
    final long oldLength = length( array );
    if ( length > oldLength ) {
        final int valid = array.length - ( array.length == 0 || array.length > 0 && array[ array.length - 1 ].length ==
SEGMENT_SIZE ? 0 : 1 );
        final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
        final KEY_GENERIC_TYPE[][] base = Arrays.copyOf( array, baseLength );
        final Class<?> componentType = array.getClass().getComponentType();
        final int residual = (int)(length & SEGMENT_MASK);
        if ( residual != 0 ) {
            for( int i = valid; i < baseLength - 1; i++ ) base[ i ] =
(KEY_GENERIC_TYPE[])java.lang.reflect.Array.newInstance( componentType.getComponentType(),
SEGMENT_SIZE );
            base[ baseLength - 1 ] = (KEY_GENERIC_TYPE[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), residual );
        }
        else
            for( int i = valid; i < baseLength; i++ ) base[ i ] = (KEY_GENERIC_TYPE[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), SEGMENT_SIZE );

        if ( preserve - ( valid * (long)SEGMENT_SIZE ) > 0 ) copy( array, valid * (long)SEGMENT_SIZE, base, valid *
(long)SEGMENT_SIZE, preserve - ( valid * (long)SEGMENT_SIZE ) );
        return base;
    }
    return array;
}

```

```

#else

/** Ensures that a big array can contain the given number of entries, preserving just a part of the big array.
 *
 * <p><strong>Warning:</strong> the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new minimum length for this big array.
 * @param preserve the number of elements of the big array that must be preserved in case a new allocation is
necessary.
 * @return <code>array</code>, if it can contain <code>length</code> entries or more; otherwise,
 *
a big array with <code>length</code> entries whose first <code>preserve</code>
 * entries are the same as those of <code>array</code>.
 */
public static KEY_TYPE[][] ensureCapacity( final KEY_TYPE[][] array, final long length, final long preserve ) {
    final long oldLength = length( array );
    if ( length > oldLength ) {
        final int valid = array.length - ( array.length == 0 || array.length > 0 && array[ array.length - 1 ].length ==
SEGMENT_SIZE ? 0 : 1 );
        final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
        final KEY_TYPE[][] base = Arrays.copyOf( array, baseLength );
        final int residual = (int)(length & SEGMENT_MASK);
        if ( residual != 0 ) {
            for( int i = valid; i < baseLength - 1; i++ ) base[ i ] = new KEY_TYPE[ SEGMENT_SIZE ];
            base[ baseLength - 1 ] = new KEY_TYPE[ residual ];
        }
        else for( int i = valid; i < baseLength; i++ ) base[ i ] = new KEY_TYPE[ SEGMENT_SIZE ];

        if ( preserve - ( valid * (long)SEGMENT_SIZE ) > 0 ) copy( array, valid
 * (long)SEGMENT_SIZE, base, valid * (long)SEGMENT_SIZE, preserve - ( valid * (long)SEGMENT_SIZE ) );
        return base;
    }
    return array;
}

#endif

/** Grows the given big array to the maximum between the given length and
 * the current length multiplied by two, provided that the given
 * length is larger than the current length.
 *
 * <P>If you want complete control on the big array growth, you
 * should probably use <code>ensureCapacity()</code> instead.
 *
 * <p><strong>Warning:</strong> the returned array might use part of the segments of the original

```

```

* array, which must be considered read-only after calling this method.
*
* @param array a big array.
* @param length the new minimum length for this big array.
* @return <code>array</code>, if it can contain <code>length</code>
* entries; otherwise, a big array with
* max(<code>length</code>,<code>length(array)</code>/&phi;) entries whose first
* <code>length(array)</code> entries are the same as those of <code>array</code>.
* */

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] grow( final KEY_GENERIC_TYPE[][] array, final long
length ) {
    final long oldLength = length( array );
    return length > oldLength ? grow( array, length, oldLength ) : array;
}

```

```

/** Grows the given big array to the maximum between the given length and
* the current length multiplied by two, provided that the given
* length is larger than the current length, preserving just a part of the big array.
*
* <P>If you want complete control on the big array growth, you
* should probably use <code>ensureCapacity()</code> instead.
*
* <p><strong>Warning:</strong> the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
* @param array a big array.
* @param length the new minimum length for this big array.
* @param preserve the number of elements of the big array that must be preserved in case a new allocation is
necessary.

* @return <code>array</code>, if it can contain <code>length</code>
* entries; otherwise, a big array with
* max(<code>length</code>,<code>length(array)</code>/&phi;) entries whose first
* <code>preserve</code> entries are the same as those of <code>array</code>.
* */

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] grow( final KEY_GENERIC_TYPE[][] array, final long
length, final long preserve ) {
    final long oldLength = length( array );
    return length > oldLength ? ensureCapacity( array, Math.max( 2 * oldLength, length ), preserve ) : array;
}

```

```

#if #keyclass(Object)

```

```

/** Trims the given big array to the given length.
*

```

```

* <p><strong>Warning:</strong> the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
* @param array a big array.
* @param length the new maximum length for the big array.
* @return <code>array</code>, if it contains <code>length</code>
* entries or
less; otherwise, a big array with
* <code>length</code> entries whose entries are the same as
* the first <code>length</code> entries of <code>array</code>.
*
*/

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] trim( final KEY_GENERIC_TYPE[][] array, final long
length ) {
    final long oldLength = length( array );
    if ( length >= oldLength ) return array;
    final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
    final KEY_GENERIC_TYPE[][] base = Arrays.copyOf( array, baseLength );
    final int residual = (int)(length & SEGMENT_MASK);
    if ( residual != 0 ) base[ baseLength - 1 ] = ARRAYS.trim( base[ baseLength - 1 ], residual );
    return base;
}

```

```

#else

```

```

/** Trims the given big array to the given length.
*
* <p><strong>Warning:</strong> the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
* @param array a big array.
* @param length the new maximum length for the big
array.
* @return <code>array</code>, if it contains <code>length</code>
* entries or less; otherwise, a big array with
* <code>length</code> entries whose entries are the same as
* the first <code>length</code> entries of <code>array</code>.
*
*/

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] trim( final KEY_GENERIC_TYPE[][] array, final long
length ) {
    final long oldLength = length( array );
    if ( length >= oldLength ) return array;
    final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
    final KEY_GENERIC_TYPE[][] base = Arrays.copyOf( array, baseLength );
    final int residual = (int)(length & SEGMENT_MASK);

```

```

if ( residual != 0 ) base[ baseLength - 1 ] = ARRAYS.trim( base[ baseLength - 1 ], residual );
return base;
}

```

```

#endif

```

```

/** Sets the length of the given big array.

```

```

*

```

```

* <p><strong>Warning:</strong> the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.

```

```

*

```

```

*

```

```

@param array a big array.

```

```

* @param length the new length for the big array.

```

```

* @return <code>array</code>, if it contains exactly <code>length</code>

```

```

* entries; otherwise, if it contains <em>more</em> than

```

```

* <code>length</code> entries, a big array with <code>length</code> entries

```

```

* whose entries are the same as the first <code>length</code> entries of

```

```

* <code>array</code>; otherwise, a big array with <code>length</code> entries

```

```

* whose first <code>length(array)</code> entries are the same as those of

```

```

* <code>array</code>.

```

```

*

```

```

*/

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] setLength( final KEY_GENERIC_TYPE[][] array, final
long length ) {
    final long oldLength = length( array );
    if ( length == oldLength ) return array;
    if ( length < oldLength ) return trim( array, length );
    return ensureCapacity( array, length );
}

```

```

/** Returns a copy of a portion of a big array.

```

```

*

```

```

* @param array a big array.

```

```

* @param offset the first element to copy.

```

```

* @param length

```

```

the number of elements to copy.

```

```

* @return a new big array containing <code>length</code> elements of <code>array</code> starting at
<code>offset</code>.

```

```

*/

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] copy( final KEY_GENERIC_TYPE[][] array, final long
offset, final long length ) {

```

```

    ensureOffsetLength( array, offset, length );

```

```

    final KEY_GENERIC_TYPE[][] a =

```

```

    #if #keyclass(Object)

```

```

        newBigArray( array, length );

```

```

#else
    newBigArray( length );
#endif
copy( array, offset, a, 0, length );
return a;
}

/** Returns a copy of a big array.
 *
 * @param array a big array.
 * @return a copy of <code>array</code>.
 */

public static KEY_GENERIC KEY_GENERIC_TYPE[][] copy( final KEY_GENERIC_TYPE[][] array ) {
    final KEY_GENERIC_TYPE[][] base = array.clone();
    for( int i = base.length; i-- != 0; ) base[ i ] = array[ i ].clone();
    return base;
}

/** Fills the given big array with the given value.
 *
 * <P>This method uses a backward loop. It is significantly faster
than the corresponding
 * method in { @link java.util.Arrays }.
 *
 * @param array a big array.
 * @param value the new value for all elements of the big array.
 */

public static KEY_GENERIC void fill( final KEY_GENERIC_TYPE[][] array, final KEY_GENERIC_TYPE value
) {
    for( int i = array.length; i-- != 0; ) Arrays.fill( array[ i ], value );
}

/** Fills a portion of the given big array with the given value.
 *
 * <P>If possible (i.e., <code>from</code> is 0) this method uses a
 * backward loop. In this case, it is significantly faster than the
 * corresponding method in { @link java.util.Arrays }.
 *
 * @param array a big array.
 * @param from the starting index of the portion to fill.
 * @param to the end index of the portion to fill.
 * @param value the new value for all elements of the specified portion of the big array.
 */

public static KEY_GENERIC void fill( final KEY_GENERIC_TYPE[][] array, final long from, long to, final
KEY_GENERIC_TYPE value ) {

```

```

final long
length = length( array );
BigArrays.ensureFromTo( length, from, to );
int fromSegment = segment( from );
int toSegment = segment( to );
int fromDispl = displacement( from );
int toDispl = displacement( to );
if ( fromSegment == toSegment ) {
    Arrays.fill( array[ fromSegment ], fromDispl, toDispl, value );
    return;
}

if ( toDispl != 0 ) Arrays.fill( array[ toSegment ], 0, toDispl, value );
while( --toSegment > fromSegment ) Arrays.fill( array[ toSegment ], value );
Arrays.fill( array[ fromSegment ], fromDispl, SEGMENT_SIZE, value );
}

/** Returns true if the two big arrays are elementwise equal.
 *
 * <P>This method uses a backward loop. It is significantly faster than the corresponding
 * method in { @link java.util.Arrays }.
 *
 * @param a1 a big array.
 * @param a2 another big array.
 * @return true if the two big arrays are of the same length, and their elements are equal.
 */

public static KEY_GENERIC boolean equals( final KEY_GENERIC_TYPE[][]
a1, final KEY_GENERIC_TYPE a2[][] ) {
    if ( length( a1 ) != length( a2 ) ) return false;
    int i = a1.length, j;
    KEY_GENERIC_TYPE[] t, u;
    while( i-- != 0 ) {
        t = a1[ i ];
        u = a2[ i ];
        j = t.length;
        while( j-- != 0 ) if ( ! KEY_EQUALS( t[ j ], u[ j ] ) ) return false;
    }
    return true;
}

/** Returns a string representation of the contents of the specified big array.
 *
 * The string representation consists of a list of the big array's elements, enclosed in square brackets ("[]"). Adjacent
 * elements are separated by the characters ", " (a comma followed by a space). Returns "null" if <code>a</code> is
 * null.
 * @param a the big array whose string representation to return.

```

```

* @return the string representation of <code>a</code>.
*/

public static KEY_GENERIC String toString( final KEY_GENERIC_TYPE[][] a ) {
    if ( a == null ) return "null";
    final long last = length( a ) - 1;
    if ( last == - 1 ) return "[]";
    final StringBuilder b = new StringBuilder();
    b.append("[");
    for
    ( long i = 0; ; i++ ) {
        b.append( String.valueOf( get( a, i ) ) );
        if ( i == last ) return b.append("]").toString();
        b.append(", ");
    }
}

/** Ensures that a range given by its first (inclusive) and last (exclusive) elements fits a big array.
*
* <P>This method may be used whenever a big array range check is needed.
*
* @param a a big array.
* @param from a start index (inclusive).
* @param to an end index (inclusive).
* @throws IllegalArgumentException if <code>from</code> is greater than <code>to</code>.
* @throws ArrayIndexOutOfBoundsException if <code>from</code> or <code>to</code> are greater than the big
array length or negative.
*/
public static KEY_GENERIC void ensureFromTo( final KEY_GENERIC_TYPE[][] a, final long from, final long to
) {
    BigArrays.ensureFromTo( length( a ), from, to );
}

/** Ensures that a range given by an offset and a length fits a big array.
*
* <P>This method may be used whenever a big array range
check is needed.
*
* @param a a big array.
* @param offset a start index.
* @param length a length (the number of elements in the range).
* @throws IllegalArgumentException if <code>length</code> is negative.
* @throws ArrayIndexOutOfBoundsException if <code>offset</code> is negative or
<code>offset</code>+<code>length</code> is greater than the big array length.
*/
public static KEY_GENERIC void ensureOffsetLength( final KEY_GENERIC_TYPE[][] a, final long offset, final
long length ) {

```

```

BigArrays.ensureOffsetLength( length( a ), offset, length );
}

/** A type-specific content-based hash strategy for big arrays. */

private static final class BigArrayHashStrategy KEY_GENERIC implements
Hash.Strategy<KEY_GENERIC_TYPE[][]>, java.io.Serializable {
    private static final long serialVersionUID = -7046029254386353129L;

    public int hashCode( final KEY_GENERIC_TYPE[][] o ) {
        return java.util.Arrays.deepHashCode( o );
    }

    public boolean equals( final KEY_GENERIC_TYPE[][]
a, final KEY_GENERIC_TYPE[][] b ) {
        return BIG_ARRAYS.equals( a, b );
    }
}

/** A type-specific content-based hash strategy for big arrays.
*
* <P>This hash strategy may be used in custom hash collections whenever keys are
* big arrays, and they must be considered equal by content. This strategy
* will handle <code>null</code> correctly, and it is serializable.
*/

@SuppressWarnings({"rawtypes"})
public final static Hash.Strategy HASH_STRATEGY = new BigArrayHashStrategy();

private static final int SMALL = 7;
private static final int MEDIUM = 40;

private static KEY_GENERIC void vecSwap( final KEY_GENERIC_TYPE[][] x, long a, long b, final long n ) {
    for( int i = 0; i < n; i++, a++, b++ ) swap( x, a, b );
}

private static KEY_GENERIC long med3( final KEY_GENERIC_TYPE x[][], final long a, final long b, final long
c, KEY_COMPARATOR KEY_GENERIC comp ) {
    int ab = comp.compare( get( x, a ), get( x, b ) );
    int ac = comp.compare( get( x, a ), get(
x, c ) );
    int bc = comp.compare( get( x, b ), get( x, c ) );
    return ( ab < 0 ?
( bc < 0 ? b : ac < 0 ? c : a ) :
( bc > 0 ? b : ac > 0 ? c : a ) );
}

```

```

private static KEY_GENERIC void selectionSort( final KEY_GENERIC_TYPE[][] a, final long from, final long to,
final KEY_COMPARATOR KEY_GENERIC comp ) {
    for( long i = from; i < to - 1; i++ ) {
        long m = i;
        for( long j = i + 1; j < to; j++ ) if ( comp.compare( BIG_ARRAYS.get( a, j ), BIG_ARRAYS.get( a, m ) ) < 0 ) m =
j;
        if ( m != i ) swap( a, i, m );
    }
}

```

/** Sorts the specified range of elements according to the order induced by the specified

* comparator using quicksort.

*

* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas

* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages

* 1249−1265, 1993.

*

* @param x the big array to be sorted.

* @param from the index of the first element (inclusive)

to be sorted.

* @param to the index of the last element (exclusive) to be sorted.

* @param comp the comparator to determine the sorting order.

*/

```

public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[][] x, final long from, final long to,
final KEY_COMPARATOR KEY_GENERIC comp ) {
    final long len = to - from;

```

// Selection sort on smallest arrays

```

if ( len < SMALL ) {
    selectionSort( x, from, to, comp );
    return;
}

```

// Choose a partition element, v

long m = from + len / 2; // Small arrays, middle element

if (len > SMALL) {

long l = from;

long n = to - 1;

if (len > MEDIUM) { // Big arrays, pseudomedian of 9

long s = len / 8;

l = med3(x, l, l + s, l + 2 * s, comp);

m = med3(x, m - s, m, m + s, comp);

n = med3(x, n - 2 * s, n - s, n, comp);

}

m = med3(x, l, m, n, comp); // Mid-size, med of 3

}

```

final KEY_GENERIC_TYPE v = get( x, m );

```

```

// Establish Invariant: v* (<v)* (>v)* v*
long a = from, b = a, c =
to - 1, d = c;
while(true) {
int comparison;
while ( b <= c && ( comparison = comp.compare( get( x, b ), v ) <= 0 ) {
if ( comparison == 0 ) swap( x, a++, b );
b++;
}
while ( c >= b && ( comparison = comp.compare( get( x, c ), v ) >= 0 ) {
if ( comparison == 0 ) swap( x, c, d-- );
c--;
}
if ( b > c ) break;
swap( x, b++, c-- );
}

// Swap partition elements back to middle
long s, n = to;
s = Math.min( a - from, b - a );
vecSwap( x, from, b - s, s );
s = Math.min( d - c, n - d - 1 );
vecSwap( x, b, n - s, s );

// Recursively sort non-partition-elements
if ( ( s = b - a ) > 1 ) quickSort( x, from, from + s, comp );
if ( ( s = d - c ) > 1 ) quickSort( x, n - s, n, comp );

}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private static KEY_GENERIC long med3( final KEY_GENERIC_TYPE x[[]], final long a, final long b, final long c
) {
int ab = KEY_CMP( get( x, a ), get( x, b ) );
int ac = KEY_CMP( get( x, a ), get( x, c ) );
int bc = KEY_CMP(
get( x, b ), get( x, c ) );
return ( ab < 0 ?
( bc < 0 ? b : ac < 0 ? c : a ) :
( bc > 0 ? b : ac > 0 ? c : a ) );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private static KEY_GENERIC void selectionSort( final KEY_GENERIC_TYPE[][] a, final long from, final long to
) {
for( long i = from; i < to - 1; i++ ) {

```

```

    long m = i;
    for( long j = i + 1; j < to; j++ ) if ( KEY_LESS( BIG_ARRAYS.get( a, j ), BIG_ARRAYS.get( a, m ) ) ) m = j;
    if ( m != i ) swap( a, i, m );
}
}

/** Sorts the specified big array according to the order induced by the specified
 * comparator using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * @param x the big array to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void quickSort(
    final KEY_GENERIC_TYPE[][] x, final KEY_COMPARATOR KEY_GENERIC comp ) {
    quickSort( x, 0, BIG_ARRAYS.length( x ), comp );
}

/** Sorts the specified range of elements according to the natural ascending order using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * @param x the big array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[][] x, final long from, final long to ) {
    final long len = to - from;

    // Selection sort on smallest arrays
    if ( len < SMALL ) {
        selectionSort( x, from, to );
        return;
    }

    // Choose a partition element, v
    long m = from
    + len / 2; // Small arrays, middle element
    if ( len > SMALL ) {
        long l = from;

```

```

long n = to - 1;
if ( len > MEDIUM ) { // Big arrays, pseudomedian of 9
    long s = len / 8;
    l = med3( x, l, l + s, l + 2 * s );
    m = med3( x, m - s, m, m + s );
    n = med3( x, n - 2 * s, n - s, n );
}
m = med3( x, l, m, n ); // Mid-size, med of 3
}

final KEY_GENERIC_TYPE v = get( x, m );

// Establish Invariant: v* (<v)* (>v)* v*
long a = from, b = a, c = to - 1, d = c;
while(true) {
    int comparison;
    while ( b <= c && ( comparison = KEY_CMP( get( x, b ), v ) <= 0 ) {
        if ( comparison == 0 ) swap( x, a++, b );
        b++;
    }
    while ( c >= b && ( comparison = KEY_CMP( get( x, c ), v ) >= 0 ) {
        if ( comparison == 0 ) swap( x, c, d-- );
        c--;
    }
    if ( b > c ) break;
    swap( x, b++, c-- );
}

// Swap partition elements back to middle
long s, n = to;
s = Math.min( a - from, b - a );
vecSwap( x, from, b - s, s );
s = Math.min( d - c, n
- d - 1 );
vecSwap( x, b, n - s, s );

// Recursively sort non-partition-elements
if ( ( s = b - a ) > 1 ) quickSort( x, from, from + s );
if ( ( s = d - c ) > 1 ) quickSort( x, n - s, n );
}

/** Sorts the specified big array according to the natural ascending order using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.

```

```

*
* @param x the big array to be sorted.
*/

public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[][] x ) {
    quickSort( x, 0, BIG_ARRAYS.length( x ) );
}

#if ! #keyclass(Boolean)

/**
 * Searches a range of the specified big array for the specified value using
 * the binary search algorithm. The range must be sorted prior to making this call.
 * If it is not sorted, the results are undefined. If the range contains multiple elements
 * with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the big array to be searched.
 * @param from the index of the first element (inclusive) to be searched.
 * @param to the index of the last element (exclusive) to be searched.
 * @param key the value to be searched for.
 * @return index of the search key, if it is contained in the big array;
 *         otherwise, <tt>(-( <i>insertion point</i> ) - 1)</tt>. The <i>insertion
 *         point</i> is defined as the the point at which the value would
 *         be inserted into the big array: the index of the first
 *         element greater than the key, or the length of the big array, if all
 *         elements in the big array are less than the specified key. Note
 *         that this guarantees that the return value will be &gt;= 0 if
 *         and only if the key is found.
 * @see java.util.Arrays
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static
KEY_GENERIC long binarySearch( final KEY_GENERIC_TYPE[][] a, long from, long to, final
KEY_GENERIC_TYPE key ) {
    KEY_GENERIC_TYPE midVal;
    to--;
    while (from <= to) {
        final long mid = (from + to) >>> 1;
        midVal = get( a, mid );
#if #keys(primitive)
        if (midVal < key) from = mid + 1;
        else if (midVal > key) to = mid - 1;
        else return mid;
#else

```

```

    final int cmp = ((Comparable KEY_SUPER_GENERIC)midVal).compareTo( key );
    if ( cmp < 0 ) from = mid + 1;
    else if ( cmp > 0 ) to = mid - 1;
    else return mid;
#endif
    }
    return -( from + 1 );
}

/**
 * Searches a big array for the specified value using
 * the binary search algorithm. The range must be sorted prior to making this call.
 * If it is not sorted, the results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the big array to be searched.
 * @param key the value to be searched for.
 * @return index of
the search key, if it is contained in the big array;
 * otherwise, <tt>-(insertion point - 1)</tt>. The insertion
 * point is defined as the the point at which the value would
 * be inserted into the big array: the index of the first
 * element greater than the key, or the length of the big array, if all
 * elements in the big array are less than the specified key. Note
 * that this guarantees that the return value will be >= 0 if
 * and only if the key is found.
 * @see java.util.Arrays
 */
public static KEY_GENERIC long binarySearch( final KEY_GENERIC_TYPE[][] a, final KEY_TYPE key ) {
    return binarySearch( a, 0, BIG_ARRAYS.length( a ), key );
}

/**
 * Searches a range of the specified big array for the specified value using
 * the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
 *
 * If it is not sorted, the results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the big array to be searched.
 * @param from the index of the first element (inclusive) to be searched.
 * @param to the index of the last element (exclusive) to be searched.
 * @param key the value to be searched for.
 * @param c a comparator.
 * @return index of the search key, if it is contained in the big array;
 * otherwise, <tt>-(insertion point - 1)</tt>. The insertion
 * point is defined as the the point at which the value would

```

```

*      be inserted into the big array: the index of the first
*      element greater than the key, or the length of the big array, if all
*      elements in the big array are less than the specified key. Note
*      that this guarantees that the return value will be >= 0 if
*
    and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC long binarySearch( final KEY_GENERIC_TYPE[][] a, long from, long to, final
KEY_GENERIC_TYPE key, final KEY_COMPARATOR KEY_GENERIC c ) {
    KEY_GENERIC_TYPE midVal;
    to--;
    while (from <= to) {
        final long mid = (from + to) >>> 1;
        midVal = get( a, mid );
        final int cmp = c.compare( midVal, key );
        if ( cmp < 0 ) from = mid + 1;
        else if (cmp > 0) to = mid - 1;
        else return mid; // key found
    }
    return -( from + 1 );
}

/**
* Searches a big array for the specified value using
* the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
* If it is not sorted, the results are undefined. If the range contains multiple elements with
* the specified value, there is no guarantee which one will be found.
*
* @param a the big array to be searched.
* @param key the value to be searched for.
* @param
c a comparator.
* @return index of the search key, if it is contained in the big array;
* otherwise, <tt>(-(insertion point) - 1)</tt>. The insertion
* point is defined as the the point at which the value would
* be inserted into the big array: the index of the first
* element greater than the key, or the length of the big array, if all
* elements in the big array are less than the specified key. Note
* that this guarantees that the return value will be >= 0 if
* and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC long binarySearch( final KEY_GENERIC_TYPE[][] a, final KEY_GENERIC_TYPE
key, final KEY_COMPARATOR KEY_GENERIC c ) {
    return binarySearch( a, 0, BIG_ARRAYS.length( a ), key, c );
}

```

```

#if #keys(primitive)
/** The size of a digit used during radix sort (must be a power of 2). */
private static final int DIGIT_BITS = 8;
/**
The mask to extract a digit of { @link #DIGIT_BITS } bits. */
private static final int DIGIT_MASK = ( 1 << DIGIT_BITS ) - 1;
/** The number of digits per element. */
private static final int DIGITS_PER_ELEMENT = KEY_CLASS.SIZE / DIGIT_BITS;

/** This method fixes negative numbers so that the combination exponent/significand is lexicographically sorted. */
#if #keyclass(Double)
private static final long fixDouble( final double d ) {
    final long l = Double.doubleToRawLongBits( d );
    return l >= 0 ? l : l ^ 0x7FFFFFFFFFFFFFFFL;
}
#elif #keyclass(Float)
private static final long fixFloat( final float f ) {
    final long i = Float.floatToRawIntBits( f );
    return i >= 0 ? i : i ^ 0x7FFFFFFF;
}
#endif

/** Sorts the specified big array using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993),
* and further improved using the digit-oracle idea described by
* Juha K&auml;rkk&auml;inen and Tommi Rantala in &ldquo;Engineering radix sort for strings&rdquo;,
* <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
* Lecture Notes in Computer Science, pages 3&minus;14, Springer (2008).
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more than 10000 elements), but it can only
* sort in ascending order.
* It will allocate a support array of bytes with the same number of elements as the array to be sorted.
*
* @param a the big array to be sorted.
*/
public static void radixSort( final KEY_TYPE[][] a ) {
    radixSort( a, 0, BIG_ARRAYS.length( a ) );
}

/** Sorts the specified big array using radix sort.
*

```

* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, “Engineering radix sort”,
 <i>Computing Systems</i>, 6(1), pages 5−27 (1993),
 * and further improved using the digit-oracle idea described by
 * Juha Kürkküinen and Tommi Rantala in “Engineering radix sort for strings”,
 * <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
 * Lecture Notes in Computer Science, pages 3−14, Springer (2008).

*
 * <p>This implementation is significantly faster than quicksort
 * already at small sizes (say, more than 10000 elements), but it can only
 * sort in ascending order.
 * It will allocate a support array of bytes with the same number of elements as the array to be sorted.

*
 * @param a the big array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */

```
public static void radixSort( final KEY_TYPE[][] a, final long from, final long to ) {
    final int maxLevel = DIGITS_PER_ELEMENT
- 1;

    final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * ( DIGITS_PER_ELEMENT - 1 ) + 1;
    final long[] offsetStack = new long[ stackSize ];
    int offsetPos = 0;
    final long[] lengthStack = new long[ stackSize ];
    int lengthPos = 0;
    final int[] levelStack = new int[ stackSize ];
    int levelPos = 0;

    offsetStack[ offsetPos++ ] = from;
    lengthStack[ lengthPos++ ] = to - from;
    levelStack[ levelPos++ ] = 0;

    final long[] count = new long[ 1 << DIGIT_BITS ];
    final long[] pos = new long[ 1 << DIGIT_BITS ];
    final byte[][] digit = ByteBigArrays.newBigArray( to - from );

    while( offsetPos > 0 ) {
        final long first = offsetStack[ --offsetPos ];
        final long length = lengthStack[ --lengthPos ];
        final int level = levelStack[ --levelPos ];
    #if #keyclass(Character)
        final int signMask = 0;
    #else
        final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
    #endif

    if ( length < MEDIUM ) {
```

```

    selectionSort( a, first, first + length );
    continue;
}

final
int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the shift
that extract the right byte from a key

// Count keys.

for( long i = length; i-- != 0; ) ByteBigArrays.set( digit, i, (byte)(( ( KEY2LEXINT( BIG_ARRAYS.get( a, first + i
) ) >>> shift ) & DIGIT_MASK ) ^ signMask ));
for( long i = length; i-- != 0; ) count[ ByteBigArrays.get( digit, i ) & 0xFF ]++;
// Compute cumulative distribution and push non-singleton keys on stack.
int lastUsed = -1;

long p = 0;
for( int i = 0; i < 1 << DIGIT_BITS; i++ ) {
    if ( count[ i ] != 0 ) {
        lastUsed = i;
        if ( level < maxLevel && count[ i ] > 1 ){
            //System.err.println( " Pushing " + new StackEntry( first + pos[ i - 1 ], first + pos[ i ], level + 1 ) );
            offsetStack[ offsetPos++ ] = p + first;
            lengthStack[ lengthPos++ ] = count[ i ];
            levelStack[ levelPos++ ] = level + 1;
        }
    }
    pos[ i ] = ( p += count[ i ]
);
}

// When all slots are OK, the last slot is necessarily OK.
final long end = length - count[ lastUsed ];
count[ lastUsed ] = 0;

// i moves through the start of each block
int c = -1;
for( long i = 0, d; i < end; i += count[ c ], count[ c ] = 0 ) {
    KEY_TYPE t = BIG_ARRAYS.get( a, i + first );
    c = ByteBigArrays.get( digit, i ) & 0xFF;
    while( ( d = --pos[ c ] ) > i ) {
        final KEY_TYPE z = t;
        final int zz = c;
        t = BIG_ARRAYS.get( a, d + first );
        c = ByteBigArrays.get( digit, d ) & 0xFF;
        BIG_ARRAYS.set( a, d + first, z );
        ByteBigArrays.set( digit, d, (byte)zz );
    }
}

```

```

    BIG_ARRAYS.set( a, i + first, t );
  }
}
}

private static void selectionSort( final KEY_TYPE[][] a, final KEY_TYPE[][] b, final long from, final long to ) {
    for( long i = from; i < to - 1; i++ ) {
        long m = i;
        for( long j = i + 1; j < to; j++ )
            if ( KEY_LESS( BIG_ARRAYS.get( a, j ), BIG_ARRAYS.get( a, m ) ) || KEY_CMP_EQ( BIG_ARRAYS.get(
a, j ), BIG_ARRAYS.get( a, m ) ) && KEY_LESS( BIG_ARRAYS.get( b, j ), BIG_ARRAYS.get( b, m ) ) ) m = j;

        if ( m != i ) {
            KEY_TYPE t = BIG_ARRAYS.get( a, i );
            BIG_ARRAYS.set( a, i, BIG_ARRAYS.get( a, m ) );
            BIG_ARRAYS.set( a, m, t );
            t = BIG_ARRAYS.get( b, i );
            BIG_ARRAYS.set( b, i, BIG_ARRAYS.get( b, m ) );
            BIG_ARRAYS.set( b, m, t );
        }
    }
}

/** Sorts the specified pair of big arrays lexicographically using radix sort.
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993),
 * and further improved using the digit-oracle idea described by
 * Juha K&auml;rkk&auml;inen and Tommi Rantala in &ldquo;Engineering radix sort for strings&rdquo;,
 * <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
 * Lecture Notes in Computer Science, pages 3&minus;14,
 * Springer (2008).
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of elements
 * in the same position in the two provided arrays will be considered a single key, and permuted
 * accordingly. In the end, either <code>a[ i ] &lt; a[ i + 1 ]</code> or <code>a[ i ] == a[ i + 1 ]</code> and
 * <code>b[ i ] &lt;= b[ i + 1 ]</code>.
 *
 * <p>This implementation is significantly faster than quicksort
 * already at small sizes (say, more than 10000 elements), but it can only
 * sort in ascending order. It will allocate a support array of bytes with the same number of elements as the arrays to
 * be sorted.
 *
 * @param a the first big array to be sorted.
 * @param b the second big array to be sorted.
 */

```

```

public static void radixSort( final KEY_TYPE[][] a, final KEY_TYPE[][] b ) {
    radixSort( a, b, 0, BIG_ARRAYS.length( a ) );
}

/** Sorts the specified pair of big arrays lexicographically using radix sort.
 *
 * <p>The sorting algorithm
is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993),
 * and further improved using the digit-oracle idea described by
 * Juha K&auml;rkk&auml;inen and Tommi Rantala in &ldquo;Engineering radix sort for strings&rdquo;,
 * <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
 * Lecture Notes in Computer Science, pages 3&minus;14, Springer (2008).
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of elements
 * in the same position in the two provided arrays will be considered a single key, and permuted
 * accordingly. In the end, either <code>a[ i ] &lt; a[ i + 1 ]</code> or <code>a[ i ] == a[ i + 1 ]</code> and
<code>b[ i ] &lt;= b[ i + 1 ]</code>.
 *
 * <p>This implementation is significantly faster than quicksort
 * already at small sizes (say, more
than 10000 elements), but it can only
 * sort in ascending order. It will allocate a support array of bytes with the same number of elements as the arrays to
be sorted.
 *
 * @param a the first big array to be sorted.
 * @param b the second big array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static void radixSort( final KEY_TYPE[][] a, final KEY_TYPE[][] b, final long from, final long to ) {
    final int layers = 2;
    if ( BIG_ARRAYS.length( a ) != BIG_ARRAYS.length( b ) ) throw new IllegalArgumentException( "Array size
mismatch." );
    final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;

    final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * ( layers * DIGITS_PER_ELEMENT - 1 ) + 1;
    final long[] offsetStack = new long[ stackSize ];
    int offsetPos = 0;
    final long[] lengthStack = new long[ stackSize ];
    int lengthPos = 0;
    final int[] levelStack =
new int[ stackSize ];
    int levelPos = 0;

    offsetStack[ offsetPos++ ] = from;
    lengthStack[ lengthPos++ ] = to - from;
    levelStack[ levelPos++ ] = 0;

```

```

final long[] count = new long[ 1 << DIGIT_BITS ];
final long[] pos = new long[ 1 << DIGIT_BITS ];
final byte[][] digit = ByteBigArrays.newBigArray( to - from );

while( offsetPos > 0 ) {
    final long first = offsetStack[ --offsetPos ];
    final long length = lengthStack[ --lengthPos ];
    final int level = levelStack[ --levelPos ];
    #if #keyclass(Character)
        final int signMask = 0;
    #else
        final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
    #endif

    if ( length < MEDIUM ) {
        selectionSort( a, b, first, first + length );
        continue;
    }

    final KEY_TYPE[][] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
    final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the
    shift that extract the right byte from a key

    // Count
    keys.
    for( long i = length; i-- != 0; ) ByteBigArrays.set( digit, i, (byte)( ( ( KEY2LEXINT( BIG_ARRAYS.get( k, first + i
    ) ) >>> shift ) & DIGIT_MASK ) ^ signMask ) );
    for( long i = length; i-- != 0; ) count[ ByteBigArrays.get( digit, i ) & 0xFF ]++;
    // Compute cumulative distribution and push non-singleton keys on stack.
    int lastUsed = -1;

    long p = 0;
    for( int i = 0; i < 1 << DIGIT_BITS; i++ ) {
        if ( count[ i ] != 0 ) {
            lastUsed = i;
            if ( level < maxLevel && count[ i ] > 1 ){
                offsetStack[ offsetPos++ ] = p + first;
                lengthStack[ lengthPos++ ] = count[ i ];
                levelStack[ levelPos++ ] = level + 1;
            }
        }
        pos[ i ] = ( p += count[ i ] );
    }

    // When all slots are OK, the last slot is necessarily OK.
    final long end = length - count[ lastUsed ];
    count[ lastUsed ] = 0;

```

```

// i moves through the start of each block
int c = -1;
for( long i = 0, d; i < end; i += count[ c ], count[ c ] = 0 ) {
    KEY_TYPE t = BIG_ARRAYS.get(
a, i + first );
    KEY_TYPE u = BIG_ARRAYS.get( b, i + first );
    c = ByteBigArrays.get( digit, i ) & 0xFF;
    while( ( d = --pos[ c ] ) > i ) {
        KEY_TYPE z = t;
        final int zz = c;
        t = BIG_ARRAYS.get( a, d + first );
        BIG_ARRAYS.set( a, d + first, z );
        z = u;
        u = BIG_ARRAYS.get( b, d + first );
        BIG_ARRAYS.set( b, d + first, z );
        c = ByteBigArrays.get( digit, d ) & 0xFF;
        ByteBigArrays.set( digit, d, (byte)zz );
    }

    BIG_ARRAYS.set( a, i + first, t );
    BIG_ARRAYS.set( b, i + first, u );
}
}
}

#endif

#endif

/** Shuffles the specified big array fragment using the specified pseudorandom number generator.
 *
 * @param a the big array to be shuffled.
 * @param from the index of the first element (inclusive) to be shuffled.
 * @param to the index of the last element (exclusive) to be shuffled.
 * @param random a pseudorandom number generator (please use a <a
href="http://dsiutils.dsi.unimi.it/docs/it/unimi/dsi/util/XorShiftStarRandom.html">XorShift*
generator).
 * @return <code>a</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[][] shuffle( final KEY_GENERIC_TYPE[][] a, final long
from, final long to, final Random random ) {
    for( long i = to - from; i-- != 0; ) {
        final long p = ( random.nextLong() & 0x7FFFFFFFFFFFFFFFL ) % ( i + 1 );
        final KEY_GENERIC_TYPE t = get( a, from + i );
        set( a, from + i, get( a, from + p ) );
        set( a, from + p, t );
    }
}

```

```

}
return a;
}

/** Shuffles the specified big array using the specified pseudorandom number generator.
 *
 * @param a the big array to be shuffled.
 * @param random a pseudorandom number generator (please use a <a
href="http://dsiutils.dsi.unimi.it/docs/it/unimi/dsi/util/XorShiftStarRandom.html">XorShift*</a> generator).
 * @return <code>a</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[][] shuffle( final KEY_GENERIC_TYPE[][] a, final
Random random ) {
    for( long i = length( a ); i-- != 0; ) {
        final
long p = ( random.nextLong() & 0x7FFFFFFFFFFFFFFFL ) % ( i + 1 );
        final KEY_GENERIC_TYPE t = get( a, i );
        set( a, i, get( a, p ) );
        set( a, p, t );
    }
    return a;
}

#if #keyclass(Integer)
#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
    return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
    return r.NEXT_KEY();
#elif #keyclass(Object)
    return Integer.toBinaryString( r.nextInt() );
#else
    return new java.io.Serializable() {};
#endif
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static BIG_ARRAY_BIG_LIST topList;

protected static void speedTest( int n, boolean b ) {}

```

```

protected static void test( int n ) {
    KEY_TYPE[][] a = BIG_ARRAYS.newBigArray( n );
    for( int i = 0; i < n; i++ ) set( a, i, i );
    BIG_ARRAYS.copy(
a, 0, a, 1, n - 2 );
    assert a[ 0 ][ 0 ] == 0;
    for( int i = 0; i < n - 2; i++ ) assert get( a, i + 1 ) == i;

    for( int i = 0; i < n; i++ ) set( a, i, i );
    BIG_ARRAYS.copy( a, 1, a, 0, n - 1 );
    for( int i = 0; i < n - 1; i++ ) assert get( a, i ) == i + 1;

    for( int i = 0; i < n; i++ ) set( a, i, i );
    KEY_TYPE[] b = new KEY_TYPE[ n ];
    for( int i = 0; i < n; i++ ) b[ i ] = i;

    assert equals( wrap( b ), a );

    System.out.println("Test OK");
    return;
}

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif
#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigArrays.drv

No license file was found, but licenses were detected in source scan.

/*

```
* Copyright (C) 2002-2015 Sebastiano Vigna
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
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* http://www.apache.org/licenses/LICENSE-2.0
*
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package PACKAGE;
```

```
import java.util.ListIterator;
```

```
/** A type-specific bidirectional iterator that is also a {@link ListIterator}.
 *
 * <P>This interface merges the methods provided by a {@link ListIterator} and
 * a type-specific {@link it.unimi.dsi.fastutil.BidirectionalIterator}. Moreover, it provides
 * type-specific
 * versions of {@link java.util.ListIterator#add(Object) add()}
 * and {@link java.util.ListIterator#set(Object) set()}.
 *
 * @see java.util.ListIterator
 * @see it.unimi.dsi.fastutil.BidirectionalIterator
 */
```

```
public interface KEY_LIST_ITERATOR KEY_GENERIC extends ListIterator<KEY_GENERIC_CLASS>,
KEY_BIDI_ITERATOR KEY_GENERIC {
```

```
    #if #keys(primitive)
    void set( KEY_TYPE k );
    void add( KEY_TYPE k );
    #endif

}
```

```
Found in path(s):
```

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ListIterator.drv
No license file was found, but licenses were detected in source scan.
```

```
/*
 * Copyright (C) 2003-2015 Paolo Boldi and Sebastiano Vigna
```

```

*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

```

```
package PACKAGE;
```

```

#if #keyclass(Object)
import java.util.Comparator;
#endif

```

```
import it.unimi.dsi.fastutil.ints.IntArrays;
```

```

/** A class providing static methods and objects that do useful things with semi-indirect heaps.
 *
 * <P>A semi-indirect heap is based on a <em>reference array</em>. Elements
 * of
 * a semi-indirect heap are integers that index the reference array (note that
 * in an <em>indirect</em> heap you can also map elements of the reference
 * array to heap positions).
 */

```

```
public class SEMI_INDIRECT_HEAPS {
```

```
    private SEMI_INDIRECT_HEAPS() {}
```

```

/** Moves the given element down into the semi-indirect heap until it reaches the lowest possible position.
 *
 * @param refArray the reference array.
 * @param heap the semi-indirect heap (starting at 0).
 * @param size the number of elements in the heap.
 * @param i the index in the heap of the element to be moved down.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 * @return the new position in the heap of the element of heap index <code>i</code>.
 */

```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
public static KEY_GENERIC int downHeap( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int
```

```

size, int i, final KEY_COMPARATOR KEY_GENERIC c ) {
    assert i < size;

    final int e = heap[
i ];
    final KEY_GENERIC_TYPE E = refArray[ e ];
    int child;

    if ( c == null )
        while ( ( child = ( i << 1 ) + 1 ) < size ) {
            int t = heap[ child ];
            final int right = child + 1;
            if ( right < size && KEY_LESS( refArray[ heap[ right ] ], refArray[ t ] ) ) t = heap[ child = right ];
            if ( KEY_LESSEQ( E, refArray[ t ] ) ) break;
            heap[ i ] = t;
            i = child;
        }
    else
        while ( ( child = ( i << 1 ) + 1 ) < size ) {
            int t = heap[ child ];
            final int right = child + 1;
            if ( right < size && c.compare( refArray[ heap[ right ] ], refArray[ t ] ) < 0 ) t = heap[ child = right ];
            if ( c.compare( E, refArray[ t ] ) <= 0 ) break;
            heap[ i ] = t;
            i = child;
        }

    heap[ i ] = e;

    return i;
}

/** Moves the given element up in the semi-indirect heap until it reaches the highest possible position.
 *
 * @param refArray the reference array.
 * @param heap the semi-indirect heap (starting at 0).
 * @param size the number of elements in the heap.
 *
 * @param i the index in the heap of the element to be moved up.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 * @return the new position in the heap of the element of heap index <code>i</code>.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int upHeap( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int size,
int i, final KEY_COMPARATOR KEY_GENERIC c ) {
    assert i < size;

```

```

final int e = heap[ i ];
final KEY_GENERIC_TYPE E = refArray[ e ];

if ( c == null )
while ( i != 0 ) {
    final int parent = ( i - 1 ) >>> 1;
    final int t = heap[ parent ];
    if ( KEY_LESSEQ( refArray[ t ], E ) ) break;
    heap[ i ] = t;
    i = parent;
}
else
while ( i != 0 ) {
    final int parent = ( i - 1 ) >>> 1;
    final int t = heap[ parent ];
    if ( c.compare( refArray[ t ], E ) <= 0 ) break;
    heap[ i ] = t;
    i = parent;
}

heap[ i ] = e;

return i;
}

/** Creates a semi-indirect heap in the
given array.
*
* @param refArray the reference array.
* @param offset the first element of the reference array to be put in the heap.
* @param length the number of elements to be put in the heap.
* @param heap the array where the heap is to be created.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
*/

public static KEY_GENERIC void makeHeap( final KEY_GENERIC_TYPE[] refArray, final int offset, final int
length, final int[] heap, final KEY_COMPARATOR KEY_GENERIC c ) {
    ARRAYS.ensureOffsetLength( refArray, offset, length );
    if ( heap.length < length ) throw new IllegalArgumentException( "The heap length (" + heap.length + ") is smaller
than the number of elements (" + length + ")" );

    int i = length;
    while( i-- != 0 ) heap[ i ] = offset + i;

    i = length >>> 1;
    while( i-- != 0 ) downHeap( refArray, heap, length, i, c );
}

```

```

/** Creates a semi-indirect heap, allocating its heap array.
 *
 * @param refArray the reference array.
 *
 * @param offset the first element of the reference array to be put in the heap.
 * @param length the number of elements to be put in the heap.
 * @param c a type-specific comparator, or null for the natural order.
 * @return the heap array.
 */

public static KEY_GENERIC int[] makeHeap( final KEY_GENERIC_TYPE[] refArray, final int offset, final int
length, final KEY_COMPARATOR KEY_GENERIC c ) {
    final int[] heap = length <= 0 ? IntArrays.EMPTY_ARRAY : new int[ length ];
    makeHeap( refArray, offset, length, heap, c );
    return heap;
}

```

```

/** Creates a semi-indirect heap from a given index array.
 *
 * @param refArray the reference array.
 * @param heap an array containing indices into refArray.
 * @param size the number of elements in the heap.
 * @param c a type-specific comparator, or null for the natural order.
 */

```

```

public static KEY_GENERIC void makeHeap( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int
size,
final KEY_COMPARATOR KEY_GENERIC c ) {
    int i = size >>> 1;
    while( i-- != 0 ) downHeap( refArray, heap, size, i, c );
}

```

```

/** Retrieves the front of a heap in a given array.
 *
 * <p>The front of a semi-indirect heap is the set of indices whose associated elements in the reference
array
 * are equal to the element associated to the first index.
 *
 * <p>In several circumstances you need to know the front, and scanning linearly the entire heap is not
 * the best strategy. This method simulates (using a partial linear scan) a breadth-first visit that
 * terminates when all visited nodes are larger than the element associated
 * to the top index, which implies that no elements of the front can be found later.
 * In most cases this trick yields a significant improvement.
 *
 * @param refArray the reference array.
 * @param heap an array containing indices into refArray.

```

```

* @param size the number of elements in the heap.
* @param a an array large
enough to hold the front (e.g., at least long as <code>refArray</code>).
* @return the number of elements actually written (starting from the first position of <code>a</code>).
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int front( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int size, final
int[] a ) {
    final KEY_GENERIC_TYPE top = refArray[ heap[ 0 ] ];
    int j = 0, // The current position in a
        l = 0, // The first position to visit in the next level (inclusive)
        r = 1, // The last position to visit in the next level (exclusive)
        f = 0; // The first position (in the heap array) of the next level
    for( int i = 0; i < r; i++ ) {
        if ( i == f ) { // New level
            if ( l >= r ) break; // If we are crossing the two bounds, we're over
            f = ( f << 1 ) + 1; // Update the first position of the next level...
            i = l; // ...and jump directly to position l
            l = -1; // Invalidate l
        }
        if ( KEY_CMP_EQ( top, refArray[ heap[ i ] ] ) ) {
            a[
j++ ] = heap[ i ];
            if ( l == -1 ) l = i * 2 + 1; // If this is the first time in this level, set l
            r = Math.min( size, i * 2 + 3 ); // Update r, but do not go beyond size
        }
    }

    return j;
}

/** Retrieves the front of a heap in a given array using a given comparator.
*
* <p>The <em>front</em> of a semi-indirect heap is the set of indices whose associated elements in the reference
array
* are equal to the element associated to the first index.
*
* <p>In several circumstances you need to know the front, and scanning linearly the entire heap is not
* the best strategy. This method simulates (using a partial linear scan) a breadth-first visit that
* terminates when all visited nodes are larger than the element associated
* to the top index, which implies that no elements of the front can be found later.
* In most cases this trick yields a significant improvement.
*
* @param refArray the reference array.
* @param heap an array containing indices
into <code>refArray</code>.
* @param size the number of elements in the heap.
* @param a an array large enough to hold the front (e.g., at least long as <code>refArray</code>).

```

```

* @param c a type-specific comparator.
* @return the number of elements actually written (starting from the first position of <code>a</code>).
*/
public static KEY_GENERIC int front( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int size, final
int[] a, final KEY_COMPARATOR KEY_GENERIC c ) {
    final KEY_GENERIC_TYPE top = refArray[ heap[ 0 ] ];
    int j = 0, // The current position in a
        l = 0, // The first position to visit in the next level (inclusive)
        r = 1, // The last position to visit in the next level (exclusive)
        f = 0; // The first position (in the heap array) of the next level
    for( int i = 0; i < r; i++ ) {
        if ( i == f ) { // New level
            if ( l >= r ) break; // If we are crossing the two bounds, we're over
            f = ( f << 1 ) + 1; // Update the first position of the
next level...
            i = l; // ...and jump directly to position l
            l = -1; // Invalidate l
        }
        if ( c.compare( top, refArray[ heap[ i ] ] ) == 0 ) {
            a[ j++ ] = heap[ i ];
            if ( l == -1 ) l = i * 2 + 1; // If this is the first time in this level, set l
            r = Math.min( size, i * 2 + 3 ); // Update r, but do not go beyond size
        }
    }

    return j;
}
}

```

Found in path(s):

`/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SemiIndirectHeaps.drv`
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```

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*/

```

```

package PACKAGE;

#if #keyclass(Object)
import java.util.Arrays;
import java.util.Comparator;

import it.unimi.dsi.fastutil.AbstractPriorityQueue;
#endif

import java.io.Serializable;
import it.unimi.dsi.fastutil.HashCommon;

import java.util.NoSuchElementException;

/** A type-specific array-based FIFO queue, supporting
    also deque operations.
    *
    * <P>Instances of this class represent a FIFO queue using a backing
    * array in a circular way. The array is enlarged and shrunk as needed. You can use the { @link #trim()} method
    * to reduce its memory usage, if necessary.
    *
    * <P>This class provides additional methods that implement a <em>deque</em> (double-ended queue).
    */

public class ARRAY_FIFO_QUEUE KEY_GENERIC extends ABSTRACT_PRIORITY_QUEUE
KEY_GENERIC implements Serializable {
    private static final long serialVersionUID = 0L;

    /** The standard initial capacity of a queue. */
    public final static int INITIAL_CAPACITY = 4;

    /** The backing array. */
    protected transient KEY_GENERIC_TYPE array[];

    /** The current (cached) length of { @link #array}. */
    protected transient int length;

    /** The start position in { @link #array}. It is always strictly smaller than { @link #length}.*/
    protected transient int start;

    /** The end position in { @link #array}. It is always strictly smaller than
        { @link #length}.
        * Might be actually smaller than { @link #start} because { @link #array} is used cyclically. */
    protected transient int end;

    /** Creates a new empty queue with given capacity.

```

```

*
* @param capacity the initial capacity of this queue.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_FIFO_QUEUE( final int capacity ) {
    if ( capacity < 0 ) throw new IllegalArgumentException( "Initial capacity (" + capacity + ") is negative" );
    array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ Math.max( 1, capacity ) ]; // Never build a queue with
zero-sized backing array.
    length = array.length;
}

/** Creates a new empty queue with standard { @linkplain #INITIAL_CAPACITY initial capacity }.
*/
public ARRAY_FIFO_QUEUE() {
    this( INITIAL_CAPACITY );
}

/** Returns <code>null</code> (FIFO queues have no comparator).
* @return <code>null</code>.
*/
@Override
public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return null;
}

@Override
public KEY_GENERIC_TYPE
DEQUEUE() {
    if ( start == end ) throw new NoSuchElementException();
    final KEY_GENERIC_TYPE t = array[ start ];
#if #keys(reference)
    array[ start ] = null; // Clean-up for the garbage collector.
#endif
    if ( ++start == length ) start = 0;
    reduce();
    return t;
}

/** Dequeues the last element from the queue.
*
* @return the dequeued element.
* @throws NoSuchElementException if the queue is empty.
*/
public KEY_GENERIC_TYPE DEQUEUE_LAST() {
    if ( start == end ) throw new NoSuchElementException();
    if ( end == 0 ) end = length;
    final KEY_GENERIC_TYPE t = array[ --end ];
#if #keys(reference)

```

```

    array[ end ] = null; // Clean-up for the garbage collector.
#endif
    reduce();
    return t;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private final void resize( final int size, final int newLength ) {
    final KEY_GENERIC_TYPE[] newArray = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ newLength ];
    if ( start >= end ) {
        if ( size != 0 ) {
            System.arraycopy( array, start, newArray, 0,
length - start );
            System.arraycopy( array, 0, newArray, length - start, end );
        }
    }
    else System.arraycopy( array, start, newArray, 0, end - start );
    start = 0;
    end = size;
    array = newArray;
    length = newLength;
}

private final void expand() {
    resize( length, (int)Math.min( it.unimi.dsi.fastutil.Arrays.MAX_ARRAY_SIZE, 2L * length ) );
}

private final void reduce() {
    final int size = size();
    if ( length > INITIAL_CAPACITY && size <= length / 4 ) resize( size, length / 2 );
}

@Override
public void enqueue( KEY_GENERIC_TYPE x ) {
    array[ end++ ] = x;
    if ( end == length ) end = 0;
    if ( end == start ) expand();
}

/** Enqueues a new element as the first element (in dequeuing order) of the queue.
 */
public void enqueueFirst( KEY_GENERIC_TYPE x ) {
    if ( start == 0 ) start = length;
    array[ --start ] = x;
    if ( end == start ) expand();
}

/** Returns the first element of the queue.

```

```

* @return the first element of the queue.
*/
public KEY_GENERIC_TYPE
FIRST() {
    if ( start == end ) throw new NoSuchElementException();
    return array[ start ];
}

/** Returns the last element of the queue.
* @return the last element of the queue.
*/
public KEY_GENERIC_TYPE LAST() {
    if ( start == end ) throw new NoSuchElementException();
    return array[ ( end == 0 ? length : end ) - 1 ];
}

@Override
public void clear() {
    #if #keys(reference)
    if ( start <= end ) Arrays.fill( array, start, end, null );
    else {
        Arrays.fill( array, start, length, null );
        Arrays.fill( array, 0, end, null );
    }
    #endif
    start = end = 0;
}

/** Trims the queue to the smallest possible size. */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void trim() {
    final int size = size();
    final KEY_GENERIC_TYPE[] newArray =
    #if #keys(primitive)
        new KEY_GENERIC_TYPE[ size + 1 ];
    #else
        (KEY_GENERIC_TYPE[])new Object[ size + 1 ];
    #endif
    if ( start <= end ) System.arraycopy( array, start, newArray, 0, end - start );
    else {
        System.arraycopy(
            array, start, newArray, 0, length - start );
        System.arraycopy( array, 0, newArray, length - start, end );
    }
    start = 0;
    length = ( end = size ) + 1;
    array = newArray;
}

```

```

}

@Override
public int size() {
    final int apparentLength = end - start;
    return apparentLength >= 0 ? apparentLength : length + apparentLength;
}

private void writeObject( java.io.ObjectOutputStream s ) throws java.io.IOException {
    s.defaultWriteObject();
    int size = size();
    s.writeInt( size );
    for( int i = start; size-- != 0; ) {
        s.WRITE_KEY( array[ i++ ] );
        if ( i == length ) i = 0;
    }
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();
    end = s.readInt();
    array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ length = HashCommon.nextPowerOfTwo( end + 1 ) ];
    for( int i = 0; i < end; i++ ) array[ i ] = KEY_GENERIC_CAST s.READ_KEY();
}
}

```

Found in path(s):

```

*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayFIFOQueue.drv
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```

```

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*/

```

```

package PACKAGE;

#if #keys(reference)
import java.util.Comparator;
#endif

/** A class providing static methods and objects that do useful things with comparators.
 */

public class COMPARATORS {

    private COMPARATORS() {}

    /** A type-specific comparator mimicking the natural order. */
    #if #keys(reference)
    SUPPRESS_WARNINGS_KEY_UNCHECKED_RAWTYPES
    protected
    static class NaturalImplicitComparator implements Comparator, java.io.Serializable {
    #else
    protected static class NaturalImplicitComparator extends KEY_ABSTRACT_COMPARATOR KEY_GENERIC
    implements java.io.Serializable {
    #endif
        private static final long serialVersionUID = 1L;

        public final int compare( final KEY_TYPE a, final KEY_TYPE b ) {
    #if #keys(primitive)
            return KEY_CMP( a, b );
    #else
            return ((Comparable)a).compareTo(b);
    #endif
        }

        private Object readResolve() { return NATURAL_COMPARATOR; }
    };

    SUPPRESS_WARNINGS_KEY_RAWTYPES
    public static final KEY_COMPARATOR NATURAL_COMPARATOR = new NaturalImplicitComparator();

    /** A type-specific comparator mimicking the opposite of the natural order. */
    #if #keys(reference)
    SUPPRESS_WARNINGS_KEY_UNCHECKED_RAWTYPES
    protected static class OppositeImplicitComparator implements Comparator, java.io.Serializable {
    #else
    protected static class OppositeImplicitComparator
    extends KEY_ABSTRACT_COMPARATOR KEY_GENERIC implements java.io.Serializable {
    #endif
        private static final long serialVersionUID = 1L;

```

```

    public final int compare( final KEY_TYPE a, final KEY_TYPE b ) {
    #if #keys(primitive)
        return - KEY_CMP( a, b );
    #else
        return ((Comparable)b).compareTo(a);
    #endif
    }
    private Object readResolve() { return OPPOSITE_COMPARATOR; }
};

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final KEY_COMPARATOR OPPOSITE_COMPARATOR = new OppositeImplicitComparator();

#if #keys(reference)
    protected static class OppositeComparator KEY_GENERIC implements Comparator KEY_GENERIC,
    java.io.Serializable {
    #else
        protected static class OppositeComparator KEY_GENERIC extends KEY_ABSTRACT_COMPARATOR
        KEY_GENERIC implements java.io.Serializable {
    #endif
        private static final long serialVersionUID = 1L;

        private final KEY_COMPARATOR KEY_GENERIC comparator;

        protected OppositeComparator( final KEY_COMPARATOR KEY_GENERIC c ) {
            comparator = c;
        }

        public
        final int compare( final KEY_GENERIC_TYPE a, final KEY_GENERIC_TYPE b ) {
            return comparator.compare( b, a );
        }
    };

/** Returns a comparator representing the opposite order of the given comparator.
 *
 * @param c a comparator.
 * @return a comparator representing the opposite order of <code>c</code>.
 */
public static KEY_GENERIC KEY_COMPARATOR KEY_GENERIC oppositeComparator( final
KEY_COMPARATOR KEY_GENERIC c ) {
    return new OppositeComparator KEY_GENERIC ( c );
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Comparators.drv

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 */
```

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Comparator;
#endif
```

```
/** A class providing static methods and objects that do useful things with heaps.
 *
 * <P>The static methods of this class allow to treat arrays as 0-based heaps. They
 * are used in the implementation of heap-based queues,
 * but they may be also used
 * directly.
 *
 */
```

```
public class HEAPS {
```

```
    private HEAPS() {}
```

```
    /** Moves the given element down into the heap until it reaches the lowest possible position.
     *
     * @param heap the heap (starting at 0).
     * @param size the number of elements in the heap.
     * @param i the index of the element that must be moved down.
     * @param c a type-specific comparator, or null for the natural order.
     * @return the new position of the element of index i.
     */
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```

public static KEY_GENERIC int downHeap( final KEY_GENERIC_TYPE[] heap, final int size, int i, final
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    assert i < size;

    final KEY_GENERIC_TYPE e = heap[ i ];
    int child;

    if ( c == null )
        while ( ( child = ( i << 1 ) + 1 ) < size ) {
            KEY_GENERIC_TYPE t = heap[ child ];
            final int right = child + 1;
            if ( right < size && KEY_LESS( heap[ right ], t ) ) t = heap[ child = right ];
            if ( KEY_LESSEQ(
e, t ) ) break;
            heap[ i ] = t;
            i = child;
        }
    else
        while ( ( child = ( i << 1 ) + 1 ) < size ) {
            KEY_GENERIC_TYPE t = heap[ child ];
            final int right = child + 1;
            if ( right < size && c.compare( heap[ right ], t ) < 0 ) t = heap[ child = right ];
            if ( c.compare( e, t ) <= 0 ) break;
            heap[ i ] = t;
            i = child;
        }

    heap[ i ] = e;

    return i;
}

/** Moves the given element up in the heap until it reaches the highest possible position.
 *
 * @param heap the heap (starting at 0).
 * @param size the number of elements in the heap.
 * @param i the index of the element that must be moved up.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 * @return the new position of the element of index <code>i</code>.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int upHeap( final KEY_GENERIC_TYPE[] heap, final int size, int i, final
KEY_COMPARATOR KEY_GENERIC c ) {
    assert i < size;

    final KEY_GENERIC_TYPE

```

```

e = heap[ i ];

if ( c == null )
while ( i != 0 ) {
    final int parent = ( i - 1 ) >>> 1;
    final KEY_GENERIC_TYPE t = heap[ parent ];
    if ( KEY_LESSEQ( t, e ) ) break;
    heap[ i ] = t;
    i = parent;
}
else
while ( i != 0 ) {
    final int parent = ( i - 1 ) >>> 1;
    final KEY_GENERIC_TYPE t = heap[ parent ];
    if ( c.compare( t, e ) <= 0 ) break;
    heap[ i ] = t;
    i = parent;
}

heap[ i ] = e;

return i;
}

/** Makes an array into a heap.
 *
 * @param heap the heap (starting at 0).
 * @param size the number of elements in the heap.
 * @param c a type-specific comparator, or <code>>null</code> for the natural order.
 */

public static KEY_GENERIC void makeHeap( final KEY_GENERIC_TYPE[] heap, final int size, final
KEY_COMPARATOR KEY_GENERIC c ) {
    int i = size >>> 1;
    while( i-- != 0 ) downHeap( heap, size, i, c );
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Heaps.drv
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*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
/** A type-specific {@link Collection}; provides some additional methods
* that use polymorphism to avoid (un)boxing.
*
* <P>Additionally, this class defines strengthens (again) {@link #iterator()} and defines
* a slightly different semantics for {@link #toArray(Object[])}.
*
* @see Collection
*/
```

```
public interface COLLECTION KEY_GENERIC extends Collection<KEY_GENERIC_CLASS>,
KEY_ITERABLE KEY_GENERIC {
```

```
/** Returns a type-specific iterator on the elements of this collection.
*
* <p>Note that this specification strengthens the one given in
* {@link java.lang.Iterable#iterator()}, which was already
* strengthened in the corresponding type-specific class,
* but was weakened by the fact that this interface extends {@link Collection}.
*
* @return a type-specific iterator on the elements of this collection.
*/
```

```
KEY_ITERATOR KEY_GENERIC iterator();
```

```
/** Returns a type-specific iterator on this elements of this collection.
*
* @see #iterator()
* @deprecated As of <code>fastutil</code> 5, replaced by {@link #iterator()}.
*/
```

```
@Deprecated
```

```
KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD();
```

```
/** Returns an containing the items of this collection;
* the runtime type of the returned array is that of the specified array.
```

```

*

* <p><strong>Warning</strong>: Note that, contrarily to { @link Collection#toArray(Object[])}, this
* methods just writes all elements of this collection: no special
* value will be added after the last one.
*
* @param a if this array is big enough, it will be used to store this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray(Object[])
*/
<T> T[] toArray(T[] a);

```

```

#if #keys(primitive)

```

```

/**
* @see Collection#contains(Object)
*/
boolean contains( KEY_TYPE key );

```

```

/** Returns a primitive type array containing the items of this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray()
*/
KEY_TYPE[] TO_KEY_ARRAY();

```

```

/** Returns a primitive type array containing the items of this collection.
*
* <p>Note that, contrarily to { @link Collection#toArray(Object[])}, this
* methods just writes all elements of this collection: no special
* value
* will be added after the last one.
*
* @param a if this array is big enough, it will be used to store this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray(Object[])
*/
KEY_TYPE[] TO_KEY_ARRAY( KEY_TYPE a[] );

```

```

/** Returns a primitive type array containing the items of this collection.
*
* <p>Note that, contrarily to { @link Collection#toArray(Object[])}, this
* methods just writes all elements of this collection: no special
* value will be added after the last one.
*
* @param a if this array is big enough, it will be used to store this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray(Object[])

```

```

*/
KEY_TYPE[] toArray( KEY_TYPE a[] );

/**
 * @see Collection#add(Object)
 */
boolean add( KEY_TYPE key );

/** Note that this method should be called { @link java.util.Collection#remove(Object) remove() }, but the clash
 * with the
 * similarly named index-based method in the { @link java.util.List } interface
 * forces us to use a distinguished name. For simplicity, the set interfaces reinstates
 * <code>remove()</code>.
 *
 * @see Collection#remove(Object)
 */
boolean rem( KEY_TYPE key );

/**
 * @see Collection#addAll(Collection)
 */
boolean addAll( COLLECTION c );

/**
 * @see Collection#containsAll(Collection)
 */
boolean containsAll( COLLECTION c );

/**
 * @see Collection#removeAll(Collection)
 */
boolean removeAll( COLLECTION c );

/**
 * @see Collection#retainAll(Collection)
 */
boolean retainAll( COLLECTION c );

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Collection.drv

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*/

```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.AbstractPriorityQueue;
```

```

/** An abstract class providing basic methods for priority queues implementing a type-specific interface.
 *
 */

```

```

public abstract class ABSTRACT_PRIORITY_QUEUE KEY_GENERIC extends
AbstractPriorityQueue<KEY_GENERIC_CLASS> implements java.io.Serializable,
PRIORITY_QUEUE KEY_GENERIC {
private static final long serialVersionUID = 1L;

```

```

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public void enqueue( final KEY_GENERIC_CLASS x ) { enqueue( x.KEY_VALUE() ); }

```

```

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS dequeue() { return KEY2OBJ( DEQUEUE() ); }

```

```

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS first() { return KEY2OBJ( FIRST() ); }

```

```

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS last() { return KEY2OBJ( LAST() ); }

```

```
/** Throws an {@link UnsupportedOperationException}.
 */
public KEY_TYPE LAST() { throw new UnsupportedOperationException(); }
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/AbstractPriorityQueue.drv
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 */
```

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Comparator;
#endif
```

```
import it.unimi.dsi.fastutil.ints.IntArrays;
```

```
import java.util.Arrays;
import java.util.NoSuchElementException;
```

```
/** A type-specific heap-based indirect priority queue.
 *
 * <P>Instances of this class use an additional <em>inversion
 * array</em>, of the same length of the reference array,
 * to keep track of the heap position containing a given element of the reference array. The priority queue is
 * represented using a heap. The heap is enlarged as needed, but it is never
 * shrunk. Use the {@link #trim()} method to reduce its size, if necessary.
 *
 * <P>This implementation does <em>not</em> allow one to enqueue several times the same index.
```

```

*/

public class HEAP_INDIRECT_PRIORITY_QUEUE KEY_GENERIC extends
HEAP_SEMI_INDIRECT_PRIORITY_QUEUE KEY_GENERIC {

    /** The inversion array. */
    protected final int inv[];

    /** Creates a new empty queue with a given capacity and comparator.
     *
     * @param refArray the reference array.
     * @param capacity the initial capacity of this queue.
     * @param c the comparator used in this queue, or <code>null</code> for the natural order.
     */
    public HEAP_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, int capacity,
    KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
        super(
        refArray, capacity, c );
        if ( capacity > 0 ) this.heap = new int[ capacity ];

        this.c = c;

        this.inv = new int[ refArray.length ];
        Arrays.fill( inv, -1 );
    }

    /** Creates a new empty queue with a given capacity and using the natural order.
     *
     * @param refArray the reference array.
     * @param capacity the initial capacity of this queue.
     */
    public HEAP_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, int capacity ) {
        this( refArray, capacity, null );
    }

    /** Creates a new empty queue with capacity equal to the length of the reference array and a given comparator.
     *
     * @param refArray the reference array.
     * @param c the comparator used in this queue, or <code>null</code> for the natural order.
     */
    public HEAP_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, KEY_COMPARATOR
    KEY_SUPER_GENERIC c ) {
        this( refArray, refArray.length, c );
    }

    /** Creates a new empty queue with capacity equal to the length of the reference array and using the natural order.

     * @param refArray the reference array.

```

```

*/
public HEAP_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray ) {
    this( refArray, refArray.length, null );
}

/** Wraps a given array in a queue using a given comparator.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The first <code>size</code> element of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param size the number of elements to be included in the queue.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
public HEAP_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, final int
size, final KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( refArray, 0, c );
    this.heap = a;
    this.size = size;
    int i = size;
    while( i-- != 0
) {
        if ( inv[ a[ i ] ] != -1 ) throw new IllegalArgumentException( "Index " + a[ i ] + " appears twice in the heap" );
        inv[ a[ i ] ] = i;
    }
    INDIRECT_HEAPS.makeHeap( refArray, a, inv, size, c );
}

/** Wraps a given array in a queue using a given comparator.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The elements of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
public HEAP_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, final
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( refArray, a, a.length, c );
}

/** Wraps a given array in a queue using the natural order.

```

```

*
* <P>The queue returned by this method will be backed
by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
*/
public HEAP_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, int size ) {
    this( refArray, a, size, null );
}

```

```

/** Wraps a given array in a queue using the natural order.

```

```

*
* <P>The queue returned by this method will be backed by the given array.
* The elements of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
*/
public HEAP_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final
int[] a ) {
    this( refArray, a, a.length );
}

public void enqueue( final int x ) {
    if ( inv[ x ] >= 0 ) throw new IllegalArgumentException( "Index " + x + " belongs to the queue" );

    if ( size == heap.length ) heap = IntArrays.grow( heap, size + 1 );

    inv[ heap[ size ] = x ] = size++;

    INDIRECT_HEAPS.upHeap( refArray, heap, inv, size, size - 1, c );
}

public boolean contains( final int index ) {
    return inv[ index ] >= 0;
}

```

```

public int dequeue() {
    if ( size == 0 ) throw new NoSuchElementException();
    final int result = heap[ 0 ];
    if ( --size != 0 ) inv[ heap[ 0 ] = heap[ size ] ] = 0;
    inv[ result ] = -1;
}

```

```

if ( size != 0 ) INDIRECT_HEAPS.downHeap( refArray, heap, inv, size, 0, c );
return result;
}

public void changed() {
    INDIRECT_HEAPS.downHeap( refArray, heap, inv, size, 0, c );
}

public void changed( final int index ) {
    final int pos = inv[ index ];
    if ( pos < 0 ) throw new IllegalArgumentException( "Index " + index + " does not belong to the
queue" );
    final int newPos = INDIRECT_HEAPS.upHeap( refArray, heap, inv, size, pos, c );
    INDIRECT_HEAPS.downHeap( refArray, heap, inv, size, newPos, c );
}

/** Rebuilds this heap in a bottom-up fashion.
*/

public void allChanged() {
    INDIRECT_HEAPS.makeHeap( refArray, heap, inv, size, c );
}

public boolean remove( final int index ) {
    final int result = inv[ index ];
    if ( result < 0 ) return false;
    inv[ index ] = -1;

    if ( result < --size ) {
        inv[ heap[ result ] = heap[ size ] ] = result;
        final int newPos = INDIRECT_HEAPS.upHeap( refArray, heap, inv, size, result, c );
        INDIRECT_HEAPS.downHeap( refArray, heap, inv, size, newPos, c );
    }

    return true;
}

public void clear() {
    size = 0;
    Arrays.fill( inv, -1 );
}

#ifdef TEST

```

```

/** The original class, now just used for testing. */

private static class TestQueue {

    /** The reference array */
    private KEY_TYPE refArray[];
    /** Its length */
    private int N;
    /** The number of elements in
the heaps */
    private int n;
    /** The two comparators */
    private KEY_COMPARATOR primaryComp, secondaryComp;
    /** Two indirect heaps are used, called primary and secondary. Each of them
contains
    a permutation of n among the indices 0, 1, ..., N-1 in such a way that the
corresponding
    objects be sorted with respect to the two comparators.
    We also need an array inSec[] so that inSec[k] is the index of
secondary
    containing k.
    */
    private int primary[], secondary[], inSec[];

    /** Builds a double indirect priority queue.
    * @param refArray The reference array.
    * @param primaryComp The primary comparator.
    * @param secondaryComp The secondary comparator.
    */
    public TestQueue( KEY_TYPE refArray[], KEY_COMPARATOR primaryComp, KEY_COMPARATOR
secondaryComp ) {
        this.refArray = refArray;
        this.N = refArray.length;
        assert this.N != 0;
        this.n = 0;
        this.primaryComp
= primaryComp;
        this.secondaryComp = secondaryComp;
        this.primary = new int[N];
        this.secondary = new int[N];
        this.inSec = new int[N];
        java.util.Arrays.fill( inSec, -1 );
    }

    /** Adds an index to the queue. Notice that the index should not be already present in the queue.
    * @param i The index to be added
    */

```

```

public void add( int i ) {
    if ( i < 0 || i >= refArray.length ) throw new IndexOutOfBoundsException();
    if ( inSec[ i ] >= 0 ) throw new IllegalArgumentException();
    primary[n] = i;
    secondary[n] = i; inSec[i] = n;
    n++;
    swimPrimary( n-1 );
    swimSecondary( n-1 );
}

/** Heapify the primary heap.
 * @param i The index of the heap to be heapified.
 */
private void heapifyPrimary( int i ) {
    int dep = primary[i];
    int child;

    while ( ( child = 2*i+1 ) < n ) {
        if ( child+1 < n && primaryComp.compare( refArray[primary[child+1]], refArray[primary[child]] ) < 0 ) child++;
        if ( primaryComp.compare( refArray[dep],
refArray[primary[child]] ) <= 0 ) break;
        primary[i] = primary[child];
        i = child;
    }
    primary[i] = dep;
}

/** Heapify the secondary heap.
 * @param i The index of the heap to be heapified.
 */
private void heapifySecondary( int i ) {
    int dep = secondary[i];
    int child;

    while ( ( child = 2*i+1 ) < n ) {
        if ( child+1 < n && secondaryComp.compare( refArray[secondary[child+1]], refArray[secondary[child]] ) < 0 )
child++;
        if ( secondaryComp.compare( refArray[dep], refArray[secondary[child]] ) <= 0 ) break;
        secondary[i] = secondary[child]; inSec[secondary[i]] = i;
        i = child;
    }
    secondary[i] = dep; inSec[secondary[i]] = i;
}

/** Swim and heapify the primary heap.
 * @param i The index to be moved.
 */
private void swimPrimary( int i ) {

```

```

int dep = primary[i];
int parent;

while ( i != 0 && ( parent = ( i - 1 ) / 2 ) >= 0 ) {
    if ( primaryComp.compare( refArray[primary[parent]], refArray[dep] ) <= 0 ) break;
    primary[i]
= primary[parent];
    i = parent;
}
primary[i] = dep;
heapifyPrimary( i );
}

/** Swim and heapify the secondary heap.
 * @param i The index to be moved.
 */
private void swimSecondary( int i ) {
    int dep = secondary[i];
    int parent;

    while ( i != 0 && ( parent = ( i - 1 ) / 2 ) >= 0 ) {
        if ( secondaryComp.compare( refArray[secondary[parent]], refArray[dep] ) <= 0 ) break;
        secondary[i] = secondary[parent]; inSec[secondary[i]] = i;
        i = parent;
    }
    secondary[i] = dep; inSec[secondary[i]] = i;
    heapifySecondary( i );
}

/** Returns the minimum element with respect to the primary comparator.
 * @return the minimum element.
 */
public int top() {
    if ( n == 0 ) throw new java.util.NoSuchElementException();
    return primary[0];
}

/** Returns the minimum element with respect to the secondary comparator.
 * @return the minimum element.
 */
public int secTop() {
    if ( n == 0 ) throw new java.util.NoSuchElementException();
    return
secondary[0];
}

/** Removes the minimum element with respect to the primary comparator.
 * @return the removed element.

```

```

*/
public boolean remove() {
    if ( n == 0 ) throw new java.util.NoSuchElementException();
    if ( inSec[primary[0]] == -1 ) return false;
    int result = primary[0];
    int ins = inSec[result];
    inSec[ result ] = -1;
    // Copy a leaf
    primary[0] = primary[n-1];
    if ( ins == n-1 ) {
        n--;
        heapifyPrimary( 0 );
        return true;
    }
    secondary[ins] = secondary[n-1];
    inSec[secondary[ins]] = ins;
    // Heapify
    n--;
    heapifyPrimary( 0 );
    swimSecondary( ins );
    return true;
}

public void clear() {
    while( size() != 0 ) remove();
}

public void remove( int index ) {
    if ( index >= refArray.length ) throw new IndexOutOfBoundsException();
    if ( inSec[index] == -1 ) return;
    int ins = inSec[index];
    inSec[ index ] = -1;
    // Copy a leaf
    primary[ins] = primary[n-1];
    if ( ins == n-1 ) {
        n--;
        swimPrimary(
ins );
        return;
    }
    secondary[ins] = secondary[n-1];
    inSec[secondary[ins]] = ins;
    // Heapify
    n--;
    swimPrimary( ins );
    swimSecondary( ins );
}

```

```

/** Signals that the minimum element with respect to the comparator has changed.
 */
public void change() {
    if ( n == 0 ) throw new java.util.NoSuchElementException();
    if ( inSec[primary[0]] == -1 ) throw new IllegalArgumentException();
    int ins = inSec[primary[0]];
    heapifyPrimary( 0 );
    swimSecondary( ins );
}

public void change(int index) {
    if ( index >= refArray.length ) throw new IndexOutOfBoundsException();
    if ( inSec[index] == -1 ) throw new IllegalArgumentException();
    if ( n == 0 ) throw new java.util.NoSuchElementException();
    int ins = inSec[ index ];
    swimPrimary( ins );
    swimSecondary( ins );
}

/** Returns the number of elements in the queue.
 * @return the size of the queue
 */
public int size() {
    return n;
}

public String toString()
{
    String s = "[";
    for ( int i = 0; i < n; i++ )
        s += refArray[primary[i]]+", ";
    return s+ "]";
}
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #elif #keyclass(Object)
        return Integer.toBinaryString( r.nextInt() );
    #else

```

```

    return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    System.out.println( "There are presently no speed tests for this class." );
}

private
static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static boolean heapEqual( int[] a, int[] b, int sizea, int sizeb ) {
    if ( sizea != sizeb ) return false;
    while( sizea-- != 0 ) if ( a[sizea] != b[sizea] ) return false;
    return true;
}

private static boolean invEqual( int inva[], int[] invb ) {
    int i = inva.length;
    while( i-- != 0 ) if ( inva[ i ] != invb[ i ] ) return false;
    return true;
}

protected static void test( int n ) {
    long ms;
    Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds, mThrowsNoElement,
    tThrowsNoElement;
    int rm = 0, rt = 0;
    KEY_TYPE[] refArray = new KEY_TYPE[ n ];

    for( int i = 0; i < n; i++ ) refArray[ i ] = genKey();
}

```

```

HEAP_INDIRECT_PRIORITY_QUEUE m = new HEAP_INDIRECT_PRIORITY_QUEUE( refArray,
COMPARATORS.NATURAL_COMPARATOR );
TestQueue t = new TestQueue(
refArray, COMPARATORS.NATURAL_COMPARATOR, COMPARATORS.NATURAL_COMPARATOR );

/* We add pairs to t. */
for( int i = 0; i < n / 2; i++ ) {
    t.add( i );
    m.enqueue( i );
}

ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after creation (" + m +
", " + t + ")" );
ensure( invEqual( m.inv, t.inSec ), "Error (" + seed + "): m and t differ in inversion arrays after creation (" +
java.util.Arrays.toString( m.inv ) + ", " + java.util.Arrays.toString( t.inSec ) + ")" );

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++ ) {
    if ( r.nextDouble() < 0.01 ) {
        t.clear();
        m.clear();
        for( int j = 0; j < n / 2; j++ ) {
            t.add( j );
            m.enqueue( j );
        }
    }
}

int T = r.nextInt( 2 * n );

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
    m.enqueue( T );
}
catch
( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }

try {
    t.add( T );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): enqueue()

```

```

divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds
+ ")" );
    ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );

    ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after enqueue (" + m +
", " + t + ")" );
    ensure( invEqual( m.inv, t.inSec ), "Error (" + seed + "): m and t differ in inversion arrays after enqueue (" +
java.util.Arrays.toString(
m.inv ) + ", " + java.util.Arrays.toString( t.inSec ) + ")" );

    if ( m.size() != 0 ) {
        ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after enqueue (" + m.first() + ", " +
t.top() + ")" );
    }

    mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

    try {
        rm = m.dequeue();
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = e; }

    try {
        rt = t.top();
        t.remove();
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): dequeue()
divergence
in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );
    ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): dequeue() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): dequeue()
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    if ( mThrowsOutOfBounds == null ) ensure( rt == rm , "Error (" + seed + "): divergence in dequeue() between t and
m (" + rt + ", " + rm + ")" );

    ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after dequeue (" + m +
", " + t + ")" );
    ensure( invEqual( m.inv, t.inSec ), "Error (" + seed + "): m and t differ in inversion arrays after dequeue (" +
java.util.Arrays.toString( m.inv ) + ", " + java.util.Arrays.toString( t.inSec ) + ")" );

```

```

    if
    ( m.size() != 0 ) {
        ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after dequeue (" + m.first() + ", " +
t.top() + ")");
    }

    int pos = r.nextInt( n * 2 );

    try {
        m.remove( pos );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = e; }

    try {
        t.remove( pos );
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): remove(int)
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
    ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed
+ "): remove(int) divergence in IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
    ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): remove(int)
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
    if ( mThrowsOutOfBounds == null ) ensure( rt == rm , "Error (" + seed + "): divergence in remove(int) between t
and m (" + rt + ", " + rm + ")");

    ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after remove(int) (" +
m + ", " + t + ")");
    ensure( invEqual( m.inv, t.inSec ), "Error (" + seed + "): m and t differ in inversion arrays after remove(int) (" +
java.util.Arrays.toString( m.inv ) + ", " + java.util.Arrays.toString( t.inSec ) + ")");

    if ( m.size() != 0 ) {
        ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after remove(int) (" + m.first() + ", "
+ t.top() + ")");
    }

    pos
= r.nextInt( n * 2 );

    try {

```

```

    m.changed( pos );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = e; }

try {
    t.change( pos );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): change(int)
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): change(int) divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement
== null ), "Error (" + seed + "): change(int) divergence in java.util.NoSuchElementException (" +
mThrowsNoElement + ", " + tThrowsNoElement + ")" );
if ( mThrowsOutOfBounds == null ) ensure( rt == rm , "Error (" + seed + "): divergence in change(int) between t
and m (" + rt + ", " + rm + ")" );

ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after change(int) (" +
m + ", " + t + ")" );
ensure( invEqual( m.inv, t.inSec ), "Error (" + seed + "): m and t differ in inversion arrays after change(int) (" +
java.util.Arrays.toString( m.inv ) + ", " + java.util.Arrays.toString( t.inSec ) + ")" );

if ( m.size() != 0 ) {
    ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after change(int) (" + m.first() + ", "
+ t.top() + ")" );
}

if ( m.size() != 0 ) {

    refArray[ m.first() ] = genKey();

    m.changed();
    t.change();

    ensure( heapEqual( m.heap, t.primary, m.size(), t.size()
), "Error (" + seed + "): m and t differ after change (" + m + ", " + t + ")" );
    ensure( invEqual( m.inv, t.inSec ), "Error (" + seed + "): m and t differ in inversion arrays after change (" +
java.util.Arrays.toString( m.inv ) + ", " + java.util.Arrays.toString( t.inSec ) + ")" );

    if ( m.size() != 0 ) {
        ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after change (" + m.first() + ", "
+ t.top() + ")" );
    }
}

```

```

    }
    }
}

/* Now we check that m actually holds the same data. */

m.clear();
ensure( m.isEmpty(), "Error (" + seed + "): m is not empty after clear()" );

System.out.println("Test OK");
}

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals(
args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/HeapIndirectPriorityQueue.drv
No license file was found, but licenses were detected in source scan.

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*/

```

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*/

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.BidirectionalIterator;
#if #keys(primitive)
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
#endif
```

```
/** A type-specific bidirectional iterator; provides an additional method to avoid (un)boxing,
 * and the possibility to skip elements backwards.
 *
 * @see BidirectionalIterator
 */
```

```
#if #keys(primitive)
public interface KEY_BIDI_ITERATOR KEY_GENERIC extends KEY_ITERATOR KEY_GENERIC,
ObjectBidirectionalIterator<KEY_GENERIC_CLASS> {
#else
public interface KEY_BIDI_ITERATOR KEY_GENERIC extends KEY_ITERATOR KEY_GENERIC,
BidirectionalIterator<KEY_GENERIC_CLASS> {
#endif
```

```
#if #keys(primitive)
```

```
/**
 * Returns the previous element as a primitive type.
 *
 * @return the previous element in the iteration.
 * @see java.util.ListIterator#previous()
 */
```

```
KEY_TYPE PREV_KEY();
```

```
#endif
```

```
/** Moves back for the given number of elements.
 *
 * <P>The effect of this call is exactly the same as that of
 * calling { @link #previous() } for <code>n</code> times (possibly stopping
 * if { @link #hasPrevious() } becomes false).
 *
```

```
* @param n the number of elements to skip back.  
* @return the number of elements actually skipped.  
* @see java.util.Iterator#next()  
*/
```

```
int back( int n );  
}
```

Found in path(s):

```
*/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BidirectionalIterator.drv
```

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```
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*/
```

```
package PACKAGE;
```

```
import java.util.Collection;  
import java.util.Set;
```

```
/** A class providing static methods and objects that do useful things with type-specific sets.  
*  
* @see java.util.Collections  
*/
```

```
public class SETS {
```

```
    private SETS() {}
```

```
    /** An immutable class representing the empty set and implementing a  
    type-specific set interface.
```

```
    *  
    * <P>This class may be useful to implement your own in case you subclass  
    * a type-specific set.
```

```

*/

public static class EmptySet KEY_GENERIC extends COLLECTIONS.EmptyCollection KEY_GENERIC
implements SET KEY_GENERIC, java.io.Serializable, Cloneable {
    private static final long serialVersionUID = -7046029254386353129L;

    protected EmptySet() {}

    public boolean remove( KEY_TYPE ok ) { throw new UnsupportedOperationException(); }
    public Object clone() { return EMPTY_SET; }
    private Object readResolve() { return EMPTY_SET; }
}

/** An empty set (immutable). It is serializable and cloneable.
 *
 * <P>The class of this objects represent an abstract empty set
 * that is a subset of a (sorted) type-specific set.
 */
SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptySet EMPTY_SET = new EmptySet();

/** An immutable class representing a type-specific singleton set.
 *
 * <P>This class may be useful to implement your own in
 * case you subclass
 * a type-specific set. */

public static class Singleton KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final KEY_GENERIC_TYPE element;

    protected Singleton( final KEY_GENERIC_TYPE element ) {
        this.element = element;
    }

    public boolean add( final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }

    public boolean contains( final KEY_TYPE k ) { return KEY_EQUALS( k, element ); }

    public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
    public boolean removeAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }

```

```

public boolean retainAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }

#if #keys(primitive)
/* Slightly optimized w.r.t. the one in ABSTRACT_SET. */

public KEY_TYPE[] TO_KEY_ARRAY()
{
    KEY_TYPE a[] = new KEY_TYPE[ 1 ];
    a[ 0 ] = element;
    return a;
}

public boolean addAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean removeAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean retainAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }
#endif

public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return ITERATORS.singleton( element ); }

public int size() { return 1; }

public Object clone() { return this; }
}

#if ! #keyclass(Reference)

/** Returns a type-specific immutable set containing only the specified element. The returned set is serializable and
cloneable.
*
* @param element the only element of the returned set.
* @return a type-specific immutable set containing just <code>element</code>.
*/

public static KEY_GENERIC SET KEY_GENERIC singleton( final KEY_GENERIC_TYPE element ) {
    return new Singleton KEY_GENERIC( element );
}

#endif

#if
! #keyclass(Object)

/** Returns a type-specific immutable set containing only the specified element. The returned set is serializable and
cloneable.
*
* @param element the only element of the returned set.
* @return a type-specific immutable set containing just <code>element</code>.
*/

```

```

public static KEY_GENERIC SET KEY_GENERIC singleton( final KEY_GENERIC_CLASS element ) {
    return new Singleton KEY_GENERIC( KEY_CLASS2TYPE( element ) );
}

#endif

/** A synchronized wrapper class for sets. */

public static class SynchronizedSet KEY_GENERIC extends COLLECTIONS.SynchronizedCollection
KEY_GENERIC implements SET KEY_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected SynchronizedSet( final SET KEY_GENERIC s, final Object sync ) {
        super( s, sync );
    }

    protected SynchronizedSet( final SET KEY_GENERIC s ) {
        super( s );
    }

    public boolean remove( final KEY_TYPE k ) { synchronized( sync ) { return
collection.remove( KEY2OBJ( k ) ); } }
    public boolean equals( final Object o ) { synchronized( sync ) { return collection.equals( o ); } }
    public int hashCode() { synchronized( sync ) { return collection.hashCode(); } }
}

/** Returns a synchronized type-specific set backed by the given type-specific set.
*
* @param s the set to be wrapped in a synchronized set.
* @return a synchronized view of the specified set.
* @see java.util.Collections#synchronizedSet(Set)
*/
public static KEY_GENERIC SET KEY_GENERIC synchronize( final SET KEY_GENERIC s ) { return new
SynchronizedSet KEY_GENERIC( s ); }

/** Returns a synchronized type-specific set backed by the given type-specific set, using an assigned object to
synchronize.
*
* @param s the set to be wrapped in a synchronized set.
* @param sync an object that will be used to synchronize the access to the set.
* @return a synchronized view of the specified set.
* @see java.util.Collections#synchronizedSet(Set)
*/

public

```

```
static KEY_GENERIC SET KEY_GENERIC synchronize( final SET KEY_GENERIC s, final Object sync ) {
return new SynchronizedSet KEY_GENERIC( s, sync ); }
```

```
/** An unmodifiable wrapper class for sets. */
```

```
public static class UnmodifiableSet KEY_GENERIC extends COLLECTIONS.UnmodifiableCollection
KEY_GENERIC implements SET KEY_GENERIC, java.io.Serializable {
```

```
private static final long serialVersionUID = -7046029254386353129L;
```

```
protected UnmodifiableSet( final SET KEY_GENERIC s ) {
super( s );
}
```

```
public boolean remove( final KEY_TYPE k ) { throw new UnsupportedOperationException(); }
public boolean equals( final Object o ) { return collection.equals( o ); }
public int hashCode() { return collection.hashCode(); }
}
```

```
/** Returns an unmodifiable type-specific set backed by the given type-specific set.
```

```
*
```

```
* @param s the set to be wrapped in an unmodifiable set.
```

```
* @return an unmodifiable view of the specified set.
```

```
* @see java.util.Collections#unmodifiableSet(Set)
```

```
*/
```

```
public static KEY_GENERIC SET KEY_GENERIC unmodifiable( final SET KEY_GENERIC s ) { return new
UnmodifiableSet KEY_GENERIC( s ); }
```

```
#ifdef TEST
```

```
private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString( r.nextInt() );
#else
return new java.io.Serializable() {};
#endif
}
```

```

private static void test() {
    int n = 100;
    int c;
    KEY_TYPE k = genKey();
    Singleton m = new Singleton( k );
    Set t = java.util.Collections.singleton( KEY2OBJ( k ) );

    long ms;
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsIndex, tThrowsIndex,
    mThrowsUnsupp, tThrowsUnsupp;
    boolean rt = false, rm = false;

    /* Now we check that m and t are equal. */
    if ( !m.equals( t ) || ! t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

    ensure( m.equals( t ), "Error (" + seed + "):
! m.equals( t ) at start" );
    ensure( t.equals( m ), "Error (" + seed + "): ! t.equals( m ) at start" );

    /* Now we check that m actually holds that data. */
    for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
        ensure( m.contains( i.next() ), "Error (" + seed + "): m and t differ on an entry after insertion (iterating on t)" );
    }

    /* Now we check that m actually holds that data, but iterating on m. */
    for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
        ensure( t.contains( i.next() ), "Error (" + seed + "): m and t differ on an entry after insertion (iterating on m)" );
    }

    /* Now we check that inquiries about random data give the same answer in m and t. For
    m we use the polymorphic method. */

    for(int i=0; i<n; i++) {
        KEY_TYPE T = genKey();

        mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
        mThrowsUnsupp = tThrowsUnsupp = false;

        try {
            m.contains(T);
        }
        catch ( java.util.NoSuchElementException
e ) { mThrowsNoElement = true; }
        catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
        catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }

```

```

try {
    t.contains(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex
+ ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure( m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + seed + "): divergence in keys between t and m (polymorphic method) " + m );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        m.contains(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        t.contains(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement
= true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );

```

```

    ensure( mThrowsIndex == tThrowsIndex, "Error (" + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): contains() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement
    && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + seed + "): divergence between t and m (standard method) " + m );
    }

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        rm = m.add(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.add(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal
= true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): add() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): add() divergence in IllegalArgumentException for
" + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + seed + "): add() divergence in IndexOutOfBoundsException
for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): add() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm ==
rt, "Error (" + seed + "): divergence in add() between t and m " + m );

    T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =

```

```
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
try {  
    rm = m.remove(KEY2OBJ(T));  
}  
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }  
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }  
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }  
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }
```

```
try {  
    rt = t.remove(KEY2OBJ(T));  
}  
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }  
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }  
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }  
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }
```

```
if ( ! KEY_EQUALS( T, k ) && mThrowsUnsupp && ! tThrowsUnsupp ) mThrowsUnsupp = false; // Stupid bug  
in Collections.singleton()
```

```
ensure(  
    mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): remove() divergence in  
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );  
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): remove() divergence in IllegalArgumentException  
for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );  
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + seed + "): remove() divergence in  
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );  
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): remove() divergence in  
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );  
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,  
"Error (" + seed + "): divergence in remove() between t and m " + m );  
}
```

```
ensure( m.equals(t), "Error (" + seed  
+ "): ! m.equals( t ) after removal " + m );  
ensure( t.equals(m), "Error (" + seed + "): ! t.equals( m ) after removal " + m );
```

```
/* Now we add and remove random collections in m and t, checking that the result is the same. */
```

```
for(int i=0; i<20*n; i++) {  
    KEY_TYPE T = genKey();
```

```
    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =  
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
try {  
    rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
```

```

}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal
= true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): addAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): addAll() divergence in IllegalArgumentException
for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + seed + "): addAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp )
ensure( rm == rt, "Error (" + seed + "): divergence in addAll() between t and m " + m );

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
    rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

if ( ! KEY_EQUALS(

```

```

T, k ) && mThrowsUnsupp && !tThrowsUnsupp ) mThrowsUnsupp = false; // Stupid bug in
Collections.singleton()

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): removeAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + seed + "): removeAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): removeAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + seed
+ "): divergence in removeAll() between t and m " + m );
    }

    ensure( m.equals(t), "Error (" + seed + "): ! m.equals( t ) after set removal " + m );
    ensure( t.equals(m), "Error (" + seed + "): ! t.equals( m ) after set removal " + m );

    /* Now we check that m actually holds the same data. */

    for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
        ensure( m.contains( i.next() ), "Error (" + seed + "): m and t differ on an entry after removal (iterating on t)");
    }

    /* Now we check that m actually holds that data, but iterating on m. */

    for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
        ensure( t.contains( i.next() ), "Error (" + seed + "): m and t differ on an entry after removal (iterating on m)");
    }

    if ( m instanceof Singleton ) {
        ensure( m.equals( ((Singleton)m).clone() ), "Error (" + seed + "): m does not equal m.clone()" );
        ensure( ((Singleton)m).clone().equals( m ), "Error (" + seed + "): m.clone() does not equal m" );
    }

    int
h = m.hashCode();

    /* Now we save and read m. */

    SET m2 = null;

    try {
        java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
        java.io.OutputStream os = new java.io.FileOutputStream(ff);
        java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

```

```

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SET)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit( 1 );
}

#if ! #keyclass(Reference)

ensure( m2.hashCode() == h, "Error (" + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + seed + "): ! t.equals( m2 ) after save/read" );
#endif

System.out.println("Test OK");
return;
}

private
static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String format( double d ) {
StringBuffer s = new StringBuffer();
return format.format( d, s, fp ).toString();
}

private static void fatal( String msg ) {
System.out.println( msg );
System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
if ( cond ) return;

```

```

fatal( msg );
}

/** This method expects as first argument a lower-cased type (e.g., "int"),
 * and as second optional argument a seed. */

public static void main( String arg[] ) throws Exception {
if ( arg.length > 1 ) r = new java.util.Random( seed = Long.parseLong( arg[ 1 ] ) );

try {
test();
} catch( Throwable e ) {
e.printStackTrace( System.err
);
System.err.println( "seed: " + seed );
}
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Sets.drv

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```

/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package PACKAGE;
```

```
import java.util.AbstractCollection;
```

```
import java.util.Collection;
```

```
import java.util.Iterator;
```

```

/** An abstract class providing basic methods for collections implementing a type-specific interface.
 *
 * <P>In particular, this class provide { @link #iterator()}, <code>add()</code>, { @link #remove(Object)}
 and
 * { @link #contains(Object)} methods that just call the type-specific counterpart.
 */

```

```

public abstract class ABSTRACT_COLLECTION KEY_GENERIC extends
AbstractCollection<KEY_GENERIC_CLASS> implements COLLECTION KEY_GENERIC {

```

```

    protected ABSTRACT_COLLECTION() {}

```

```

    #if #keys(primitive)

```

```

    public KEY_TYPE[] toArray( KEY_TYPE a[] ) {
        return TO_KEY_ARRAY( a );
    }

```

```

    public KEY_TYPE[] TO_KEY_ARRAY() {
        return TO_KEY_ARRAY( null );
    }

```

```

    public KEY_TYPE[] TO_KEY_ARRAY( KEY_TYPE a[] ) {
        if ( a == null || a.length < size() ) a = new KEY_TYPE[ size() ];
        ITERATORS.unwrap( iterator(), a );
        return a;
    }

```

```

/** Adds all elements of the given type-specific collection to this collection.
 *
 * @param c a type-specific collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

```

```

    public boolean addAll( COLLECTION c ) {
        boolean retVal = false;
        final KEY_ITERATOR i = c.iterator();
        int n = c.size();

        while( n-- != 0 ) if ( add( i.NEXT_KEY() )
) retVal = true;
        return retVal;
    }

```

```

/** Checks whether this collection contains all elements from the given type-specific collection.
 *
 * @param c a type-specific collection.

```

```

* @return <code>true</code> if this collection contains all elements of the argument.
*/

public boolean containsAll( COLLECTION c ) {
    final KEY_ITERATOR i = c.iterator();
    int n = c.size();

    while( n-- != 0 ) if ( ! contains( i.NEXT_KEY() ) ) return false;

    return true;
}

/** Retains in this collection only elements from the given type-specific collection.
 *
 * @param c a type-specific collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

public boolean retainAll( COLLECTION c ) {
    boolean retVal = false;
    int n = size();

    final KEY_ITERATOR i = iterator();

    while( n-- != 0 ) {
        if ( ! c.contains( i.NEXT_KEY() ) ) {
            i.remove();
            retVal = true;
        }
    }

    return retVal;
}

/** Remove from this collection all elements in the
given type-specific collection.
 *
 * @param c a type-specific collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

public boolean removeAll( COLLECTION c ) {
    boolean retVal = false;
    int n = c.size();

    final KEY_ITERATOR i = c.iterator();

    while( n-- != 0 ) if ( rem( i.NEXT_KEY() ) ) retVal = true;

```

```

return retVal;
}

#endif

public Object[] toArray() {
    final Object[] a = new Object[ size() ];
    it.unimi.dsi.fastutil.objects.ObjectIterators.unwrap( iterator(), a );
    return a;
}

@SuppressWarnings("unchecked")
public <T> T[] toArray( T[] a ) {
    if ( a.length < size() ) a = (T[])java.lang.reflect.Array.newInstance( a.getClass().getComponentType(), size() );
    it.unimi.dsi.fastutil.objects.ObjectIterators.unwrap( iterator(), a );
    return a;
}

/** Adds all elements of the given collection to this collection.
 *
 * @param c a collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

public boolean addAll( Collection<? extends KEY_GENERIC_CLASS> c ) {
    boolean retVal = false;
    final Iterator<? extends KEY_GENERIC_CLASS> i = c.iterator();
    int n = c.size();

    while( n-- != 0 ) if ( add( i.next() ) ) retVal = true;
    return retVal;
}

public boolean add( KEY_GENERIC_TYPE k ) {
    throw new UnsupportedOperationException();
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() {
    return iterator();
}

public abstract KEY_ITERATOR KEY_GENERIC iterator();

```

```

#if #keys(primitive)

/** Delegates to the type-specific <code>rem()</code> method. */
public boolean remove( Object ok ) {
    return rem( KEY_OBJ2TYPE( ok ) );
}

/** Delegates to the corresponding type-specific method. */
public boolean add( final KEY_CLASS o ) {
    return add( o.KEY_VALUE() );
}

/** Delegates to the corresponding type-specific method. */
public boolean rem( final Object o ) {
    return rem(
        KEY_OBJ2TYPE(o) );
}

/** Delegates to the corresponding type-specific method. */
public boolean contains( final Object o ) {
    return contains( KEY_OBJ2TYPE(o) );
}

public boolean contains( final KEY_TYPE k ) {
    final KEY_ITERATOR iterator = iterator();
    while ( iterator.hasNext() ) if ( k == iterator.NEXT_KEY() ) return true;
    return false;
}

public boolean rem( final KEY_TYPE k ) {
    final KEY_ITERATOR iterator = iterator();
    while ( iterator.hasNext() )
        if ( k == iterator.NEXT_KEY() ) {
            iterator.remove();
            return true;
        }
    return false;
}

#endif

/** Checks whether this collection contains all elements from the given collection.
 *
 * @param c a collection.
 * @return <code>>true</code> if this collection contains all elements of the argument.
 */

public boolean containsAll( Collection<?> c ) {

```

```

int n = c.size();

final Iterator<?> i = c.iterator();
while( n-- != 0 ) if ( ! contains( i.next() ) ) return false;

return true;
}

/**
Retains in this collection only elements from the given collection.
*
* @param c a collection.
* @return <code>true</code> if this collection changed as a result of the call.
*/

public boolean retainAll( Collection<?> c ) {
    boolean retVal = false;
    int n = size();

    final Iterator<?> i = iterator();
    while( n-- != 0 ) {
        if ( ! c.contains( i.next() ) ) {
            i.remove();
            retVal = true;
        }
    }

    return retVal;
}

/** Remove from this collection all elements in the given collection.
* If the collection is an instance of this class, it uses faster iterators.
*
* @param c a collection.
* @return <code>true</code> if this collection changed as a result of the call.
*/

public boolean removeAll( Collection<?> c ) {
    boolean retVal = false;
    int n = c.size();

    final Iterator<?> i = c.iterator();
    while( n-- != 0 ) if ( remove( i.next() ) ) retVal = true;

    return retVal;
}

```

```

public boolean isEmpty() {
    return size() == 0;
}

public String
toString() {
    final StringBuilder s = new StringBuilder();
    final KEY_ITERATOR KEY_GENERIC i = iterator();
    int n = size();
    KEY_TYPE k;
    boolean first = true;

    s.append("{");

    while(n-- != 0) {
        if (first) first = false;
        else s.append(", ");
        k = i.NEXT_KEY();
        #if #keys(reference)
            if (this == k) s.append("(this collection)"); else
        #endif
            s.append(String.valueOf(k));
        }

    s.append("}");
    return s.toString();
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractCollection.drv
No license file was found, but licenses were detected in source scan.

```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

```

```

package PACKAGE;

#if #keys(reference)
import it.unimi.dsi.fastutil.Stack;
#endif

import java.util.List;
import java.util.Iterator;
import java.util.ListIterator;
import java.util.Collection;
import java.util.NoSuchElementException;

/** An abstract class providing basic methods for lists implementing a type-specific
list interface.
*
* <P>As an additional bonus, this class implements on top of the list operations a type-specific stack.
*/

public abstract class ABSTRACT_LIST KEY_GENERIC extends ABSTRACT_COLLECTION KEY_GENERIC
implements LIST KEY_GENERIC, STACK KEY_GENERIC {

protected ABSTRACT_LIST() {}

/** Ensures that the given index is nonnegative and not greater than the list size.
*
* @param index an index.
* @throws IndexOutOfBoundsException if the given index is negative or greater than the list size.
*/
protected void ensureIndex( final int index ) {
if ( index < 0 ) throw new IndexOutOfBoundsException( "Index (" + index + ") is negative" );
if ( index > size() ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than list size (" + (
size() ) + ")" );
}

/** Ensures that the given index is nonnegative and smaller than the list size.
*
* @param index an index.
* @throws IndexOutOfBoundsException if the given index is negative or not smaller
than the list size.
*/
protected void ensureRestrictedIndex( final int index ) {
if ( index < 0 ) throw new IndexOutOfBoundsException( "Index (" + index + ") is negative" );
if ( index >= size() ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to list
size (" + ( size() ) + ")" );
}
}

```

```

public void add( final int index, final KEY_GENERIC_TYPE k ) {
    throw new UnsupportedOperationException();
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    add( size(), k );
    return true;
}

public KEY_GENERIC_TYPE REMOVE_KEY( int i ) {
    throw new UnsupportedOperationException();
}

public KEY_GENERIC_TYPE set( final int index, final KEY_GENERIC_TYPE k ) {
    throw new UnsupportedOperationException();
}

public boolean addAll( int index, final Collection<? extends KEY_GENERIC_CLASS> c ) {
    ensureIndex( index );
    int n = c.size();
    if ( n == 0 ) return false;
    Iterator<? extends KEY_GENERIC_CLASS> i = c.iterator();
    while( n-- != 0 )
        add( index++, i.next() );
    return true;
}

/** Delegates to a more generic method. */
public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) {
    return addAll( size(), c );
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() {
    return listIterator();
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD( final int index ) {
    return listIterator( index );
}

public KEY_LIST_ITERATOR KEY_GENERIC iterator() {
    return listIterator();
}

```

```

}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator() {
    return listIterator( 0 );
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator( final int index ) {
    return new KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC() {
        int pos = index, last = -1;

        public boolean hasNext() { return pos < ABSTRACT_LIST.this.size(); }
        public boolean
hasPrevious() { return pos > 0; }
        public KEY_GENERIC_TYPE NEXT_KEY() { if ( ! hasNext() ) throw new NoSuchElementException(); return
ABSTRACT_LIST.this.GET_KEY( last = pos++ ); }
        public KEY_GENERIC_TYPE PREV_KEY() { if ( ! hasPrevious() ) throw new NoSuchElementException(); return
ABSTRACT_LIST.this.GET_KEY( last = --pos ); }
        public int nextIndex() { return pos; }
        public int previousIndex() { return pos - 1; }
        public void add( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            ABSTRACT_LIST.this.add( pos++, k );
            last = -1;
        }
        public void set( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            ABSTRACT_LIST.this.set( last, k );
        }
        public void remove() {
            if ( last == -1 ) throw new IllegalStateException();
            ABSTRACT_LIST.this.REMOVE_KEY( last );
            /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly.
*/
            if ( last < pos ) pos--;
            last = -1;
        }
    };
}

public boolean contains( final KEY_TYPE k ) {
    return indexOf( k ) >= 0;
}

public int indexOf( final KEY_TYPE k ) {
    final KEY_LIST_ITERATOR KEY_GENERIC i = listIterator();

```

```

KEY_GENERIC_TYPE e;
while( i.hasNext() ) {
    e = i.NEXT_KEY();
    if ( KEY_EQUALS( k, e ) ) return i.previousIndex();
}
return -1;
}

public int lastIndexOf( final KEY_TYPE k ) {
    KEY_LIST_ITERATOR KEY_GENERIC i = listIterator( size() );
    KEY_GENERIC_TYPE e;
    while( i.hasPrevious() ) {
        e = i.PREV_KEY();
        if ( KEY_EQUALS( k, e ) ) return i.nextIndex();
    }
    return -1;
}

public void size( final int size ) {
    int i = size();
    if ( size > i ) while( i++ < size ) add( KEY_NULL );
    else while( i-- != size ) remove( i );
}

public LIST KEY_GENERIC subList( final int from, final int to ) {
    ensureIndex( from );
    ensureIndex( to );
    if ( from > to ) throw new IndexOutOfBoundsException( "Start index (" + from +
    ") is greater than end index (" + to + ")" );

    return new SUBLIST KEY_GENERIC( this, from, to );
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public LIST KEY_GENERIC SUBLIST_METHOD( final int from, final int to ) {
    return subList( from, to );
}

/** Removes elements of this type-specific list one-by-one.
 *
 * <P>This is a trivial iterator-based implementation. It is expected that
 * implementations will override this method with a more optimized version.
 *
 *
 * @param from the start index (inclusive).

```

```

* @param to the end index (exclusive).
*/

public void removeElements( final int from, final int to ) {
    ensureIndex( to );
    KEY_LIST_ITERATOR KEY_GENERIC i = listIterator( from );
    int n = to - from;
    if ( n < 0 ) throw new IllegalArgumentException( "Start index (" + from + ") is greater than end index (" + to + ")" );
    while( n-- != 0 ) {
        i.NEXT_KEY();
        i.remove();
    }
}

/** Adds elements to this type-specific
list one-by-one.
*
* <P>This is a trivial iterator-based implementation. It is expected that
* implementations will override this method with a more optimized version.
*
* @param index the index at which to add elements.
* @param a the array containing the elements.
* @param offset the offset of the first element to add.
* @param length the number of elements to add.
*/

public void addElements( int index, final KEY_GENERIC_TYPE a[], int offset, int length ) {
    ensureIndex( index );
    if ( offset < 0 ) throw new ArrayIndexOutOfBoundsException( "Offset (" + offset + ") is negative" );
    if ( offset + length > a.length ) throw new ArrayIndexOutOfBoundsException( "End index (" + ( offset + length ) +
) is greater than array length (" + a.length + ")" );
    while( length-- != 0 ) add( index++, a[ offset++ ] );
}

public void addElements( final int index, final KEY_GENERIC_TYPE a[] ) {
    addElements( index, a, 0, a.length );
}

/** Copies element of this type-specific
list into the given array one-by-one.
*
* <P>This is a trivial iterator-based implementation. It is expected that
* implementations will override this method with a more optimized version.
*
* @param from the start index (inclusive).
* @param a the destination array.
* @param offset the offset into the destination array where to store the first element copied.
* @param length the number of elements to be copied.

```

```

*/

public void getElements( final int from, final KEY_TYPE a[], int offset, int length ) {
    KEY_LIST_ITERATOR KEY_GENERIC i = listIterator( from );
    if ( offset < 0 ) throw new ArrayIndexOutOfBoundsException( "Offset ( " + offset + " ) is negative" );
    if ( offset + length > a.length ) throw new ArrayIndexOutOfBoundsException( "End index ( " + ( offset + length ) +
    " ) is greater than array length ( " + a.length + " )" );
    if ( from + length > size() ) throw new IndexOutOfBoundsException( "End index ( " + ( from + length ) + " ) is
    greater than list size
    ( " + size() + " )" );
    while( length-- != 0 ) a[ offset++ ] = i.NEXT_KEY();
}

#if ! #keyclass(Reference)
private boolean valEquals( final Object a, final Object b ) {
    return a == null ? b == null : a.equals( b );
}
#endif

public boolean equals( final Object o ) {
    if ( o == this ) return true;
    if ( ! ( o instanceof List ) ) return false;

    final List<?> l = (List<?>)o;
    int s = size();
    if ( s != l.size() ) return false;

    #if #keys(primitive)
    if ( l instanceof LIST ) {
        final KEY_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((LIST KEY_GENERIC)l).listIterator();
        while( s-- != 0 ) if ( i1.NEXT_KEY() != i2.NEXT_KEY() ) return false;
        return true;
    }
    #endif

    final ListIterator<?> i1 = listIterator(), i2 = l.listIterator();

    #if #keyclass(Reference)
    while( s-- != 0 ) if ( i1.next() != i2.next() ) return false;
    #else
    while( s-- != 0 ) if ( ! valEquals( i1.next(), i2.next() ) ) return false;
    #endif
    return true;
}

#if ! #keyclass(Reference)
/** Compares

```

this list to another object. If the

```
* argument is a { @link java.util.List}, this method performs a lexicographical comparison; otherwise,  
* it throws a <code>ClassCastException</code>.  
*  
* @param l a list.  
* @return if the argument is a { @link java.util.List}, a negative integer,  
* zero, or a positive integer as this list is lexicographically less than, equal  
* to, or greater than the argument.  
* @throws ClassCastException if the argument is not a list.  
*/
```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```
public int compareTo( final List<? extends KEY_GENERIC_CLASS> l ) {  
    if ( l == this ) return 0;  
  
    if ( l instanceof LIST ) {  
  
        final KEY_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((LIST KEY_GENERIC)l).listIterator();  
        int r;  
        KEY_GENERIC_TYPE e1, e2;  
  
        while( i1.hasNext() && i2.hasNext() ) {  
            e1 = i1.NEXT_KEY();  
            e2 = i2.NEXT_KEY();  
            if ( ( r = KEY_CMP( e1, e2 ) ) != 0 ) return r;  
        }  
        return i2.hasNext() ? -1  
        : ( i1.hasNext() ? 1 : 0 );  
    }  
  
    ListIterator<? extends KEY_GENERIC_CLASS> i1 = listIterator(), i2 = l.listIterator();  
    int r;  
  
    while( i1.hasNext() && i2.hasNext() ) {  
        if ( ( r = ((Comparable<? super KEY_GENERIC_CLASS>)i1.next()).compareTo( i2.next() ) ) != 0 ) return r;  
    }  
    return i2.hasNext() ? -1 : ( i1.hasNext() ? 1 : 0 );  
}  
#endif  
  
/** Returns the hash code for this list, which is identical to { @link java.util.List#hashCode()}.  
*  
* @return the hash code for this list.  
*/  
public int hashCode() {  
    KEY_ITERATOR KEY_GENERIC i = iterator();  
    int h = 1, s = size();  
    while ( s-- != 0 ) {
```

```

    KEY_GENERIC_TYPE k = i.NEXT_KEY();
    h = 31 * h + KEY2JAVAHASH( k );
}
return h;
}

public void push( KEY_GENERIC_TYPE o ) {
    add( o );
}

public KEY_GENERIC_TYPE POP() {
    if ( isEmpty() ) throw new NoSuchElementException();
    return REMOVE_KEY( size() - 1 );
}

public KEY_GENERIC_TYPE TOP() {
    if ( isEmpty() ) throw new NoSuchElementException();
    return GET_KEY(
size() - 1 );
}

public KEY_GENERIC_TYPE PEEK( int i ) {
    return GET_KEY( size() - 1 - i );
}

#if #keys(primitive)

public boolean rem( KEY_TYPE k ) {
    int index = indexOf( k );
    if ( index == -1 ) return false;
    REMOVE_KEY( index );
    return true;
}

/** Delegates to <code>rem()</code>. */
public boolean remove( final Object o ) {
    return rem( KEY_OBJ2TYPE( o ) );
}

/** Delegates to a more generic method. */
public boolean addAll( final int index, final COLLECTION c ) {
    return addAll( index, (Collection<? extends KEY_CLASS>)c );
}

/** Delegates to a more generic method. */
public boolean addAll( final int index, final LIST l ) {
    return addAll( index, (COLLECTION)l );
}

```

```

}

public boolean addAll( final COLLECTION c ) {
    return addAll( size(), c );
}

public boolean addAll( final LIST l ) {
    return addAll( size(), l );
}

/** Delegates to the corresponding type-specific method. */
public void add( final int index, final KEY_CLASS ok ) {
    add( index,
        ok.KEY_VALUE() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS set( final int index, final KEY_CLASS ok ) {
    return KEY2OBJ( set( index, ok.KEY_VALUE() ) );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS get( final int index ) {
    return KEY2OBJ( GET_KEY( index ) );
}

/** Delegates to the corresponding type-specific method. */
public int indexOf( final Object ok ) {
    return indexOf( KEY_OBJ2TYPE( ok ) );
}

/** Delegates to the corresponding type-specific method. */
public int lastIndexOf( final Object ok ) {
    return lastIndexOf( KEY_OBJ2TYPE( ok ) );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS remove( final
int index ) {
    return KEY2OBJ( REMOVE_KEY( index ) );
}

```

```

/** Delegates to the corresponding type-specific method. */
public void push( KEY_CLASS o ) {
    push( o.KEY_VALUE() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS pop() {
    return KEY_CLASS.valueOf( POP() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS top() {
    return KEY_CLASS.valueOf( TOP() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS peek( int i ) {
    return KEY_CLASS.valueOf( PEEK( i ) );
}

#endif

public String toString() {
    final StringBuilder s = new StringBuilder();
    final KEY_ITERATOR KEY_GENERIC i = iterator();
    int n = size();
    KEY_GENERIC_TYPE
    k;
    boolean first = true;

    s.append("[");

    while( n-- != 0 ) {
        if (first) first = false;
        else s.append(", ");
        k = i.NEXT_KEY();
        #if #keys(reference)
        if (this == k) s.append("(this list)"); else
        #endif
        s.append( String.valueOf( k ) );
    }
}

```

```

s.append("]");
return s.toString();
}

```

```

public static class SUBLIST KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
java.io.Serializable {

```

```

    private static final long serialVersionUID = -7046029254386353129L;
    /** The list this sublist restricts. */
    protected final LIST KEY_GENERIC l;
    /** Initial (inclusive) index of this sublist. */
    protected final int from;
    /** Final (exclusive) index of this sublist. */
    protected int to;

```

```

    private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

    public SUBLIST( final LIST KEY_GENERIC l, final int from, final int to ) {
        this.l = l;
        this.from = from;
        this.to = to;
    }

```

```

    private void assertRange() {
        if ( ASSERTS ) {
            assert from
<= l.size();
            assert to <= l.size();
            assert to >= from;
        }
    }

```

```

    public boolean add( final KEY_GENERIC_TYPE k ) {
        l.add( to, k );
        to++;
        if ( ASSERTS ) assertRange();
        return true;
    }

```

```

    public void add( final int index, final KEY_GENERIC_TYPE k ) {
        ensureIndex( index );
        l.add( from + index, k );
        to++;
        if ( ASSERTS ) assertRange();
    }

```

```

    public boolean addAll( final int index, final Collection<? extends KEY_GENERIC_CLASS> c ) {

```

```

ensureIndex( index );
to += c.size();
if ( ASSERTS ) {
    boolean retVal = l.addAll( from + index, c );
    assertRange();
    return retVal;
}
return l.addAll( from + index, c );
}

public KEY_GENERIC_TYPE GET_KEY( int index ) {
    ensureRestrictedIndex( index );
    return l.GET_KEY( from + index );
}

public KEY_GENERIC_TYPE REMOVE_KEY( int index ) {
    ensureRestrictedIndex( index );
    to--;
    return l.REMOVE_KEY( from + index );
}

public KEY_GENERIC_TYPE set( int index, KEY_GENERIC_TYPE k ) {
    ensureRestrictedIndex(
index );
    return l.set( from + index, k );
}

public void clear() {
    removeElements( 0, size() );
    if ( ASSERTS ) assertRange();
}

public int size() {
    return to - from;
}

public void getElements( final int from, final KEY_TYPE[] a, final int offset, final int length ) {
    ensureIndex( from );
    if ( from + length > size() ) throw new IndexOutOfBoundsException( "End index (" + from + length + ") is greater
than list size (" + size() + ")" );
    l.getElements( this.from + from, a, offset, length );
}

public void removeElements( final int from, final int to ) {
    ensureIndex( from );
    ensureIndex( to );
    l.removeElements( this.from + from, this.from + to );
    this.to -= ( to - from );
}

```

```

if ( ASSERTS ) assertRange();
}

public void addElements( int index, final KEY_GENERIC_TYPE a[], int offset, int length ) {
    ensureIndex( index );
    l.addElements( this.from + index, a, offset, length );
    this.to += length;
    if (
ASSERTS ) assertRange();
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator( final int index ) {
    ensureIndex( index );

    return new KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC() {
        int pos = index, last = -1;

        public boolean hasNext() { return pos < size(); }
        public boolean hasPrevious() { return pos > 0; }
        public KEY_GENERIC_TYPE NEXT_KEY() { if ( ! hasNext() ) throw new NoSuchElementException(); return
l.GET_KEY( from + ( last = pos++ ) ); }
        public KEY_GENERIC_TYPE PREV_KEY() { if ( ! hasPrevious() ) throw new NoSuchElementException(); return
l.GET_KEY( from + ( last = --pos ) ); }
        public int nextIndex() { return pos; }
        public int previousIndex() { return pos - 1; }
        public void add( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            SUBLIST.this.add( pos++, k );
            last = -1;
            if ( ASSERTS ) assertRange();
        }
        public void set( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw
new IllegalStateException();
            SUBLIST.this.set( last, k );
        }
        public void remove() {
            if ( last == -1 ) throw new IllegalStateException();
            SUBLIST.this.REMOVE_KEY( last );
            /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
            if ( last < pos ) pos--;
            last = -1;
            if ( ASSERTS ) assertRange();
        }
    };
}

```

```

public LIST KEY_GENERIC subList( final int from, final int to ) {
    ensureIndex( from );
    ensureIndex( to );
    if ( from > to ) throw new IllegalArgumentException( "Start index (" + from + ") is greater than end index (" + to +
    )" );

    return new SUBLIST KEY_GENERIC( this, from, to );
}

#if #keys(primitive)

public boolean rem( KEY_TYPE k ) {
    int index = indexOf( k );
    if ( index == -1 ) return false;
    to--;
    l.REMOVE_KEY( from + index );
    if ( ASSERTS ) assertRange();
    return true;
}

public boolean remove( final Object o )
{
    return rem( KEY_OBJ2TYPE( o ) );
}

public boolean addAll( final int index, final COLLECTION c ) {
    ensureIndex( index );
    to += c.size();
    if ( ASSERTS ) {
        boolean retVal = l.addAll( from + index, c );
        assertRange();
        return retVal;
    }
    return l.addAll( from + index, c );
}

public boolean addAll( final int index, final LIST l ) {
    ensureIndex( index );
    to += l.size();
    if ( ASSERTS ) {
        boolean retVal = this.l.addAll( from + index, l );
        assertRange();
        return retVal;
    }
    return this.l.addAll( from + index, l );
}

#else

```

```

public boolean remove( final Object o ) {
    int index = indexOf( o );
    if ( index == -1 ) return false;
    REMOVE_KEY( index );
    return true;
}
#endif

}

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractList.drv

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 */

```

```

package PACKAGE;

```

```

import java.util.Iterator;

```

```

/** A type-specific {@link Iterator}; provides an additional method to avoid (un)boxing, and
 * the possibility to skip elements.
 *
 * @see Iterator
 */

```

```

public interface KEY_ITERATOR KEY_GENERIC extends Iterator<KEY_GENERIC_CLASS> {

```

```

    #if #keys(primitive)

```

```

/**
 * Returns
 the next element as a primitive type.
 *
 * @return the next element in the iteration.
 * @see Iterator#next()
 */

KEY_TYPE NEXT_KEY();

#endif

/** Skips the given number of elements.
 *
 * <P>The effect of this call is exactly the same as that of
 * calling { @link #next()} for <code>n</code> times (possibly stopping
 * if { @link #hasNext()} becomes false).
 *
 * @param n the number of elements to skip.
 * @return the number of elements actually skipped.
 * @see Iterator#next()
 */

int skip( int n );
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Iterator.drv

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 */

```

```

package PACKAGE;

/** An abstract class facilitating the creation of type-specific iterators.
 *
 * <P>To create a type-specific iterator you need both a method returning the
 * next element as primitive type and a method returning the next element as an
 * object. However, if you inherit from this class you need
 * just one (anyone).
 *
 * <P>This class implements also a trivial version of { @link #skip(int)} that uses
 * type-specific methods; moreover, { @link #remove()} will throw an { @link
 * UnsupportedOperationException}.
 *
 * @see java.util.Iterator
 */

public abstract class KEY_ABSTRACT_ITERATOR KEY_GENERIC implements KEY_ITERATOR
KEY_GENERIC {

    protected KEY_ABSTRACT_ITERATOR() {}

    #if #keys(primitive)

        /** Delegates to the corresponding generic method. */
        public KEY_TYPE NEXT_KEY() { return next().KEY_VALUE(); }

        /** Delegates to the corresponding type-specific method.
         * @deprecated Please use the corresponding type-specific method instead. */
        @Deprecated
        public KEY_GENERIC_CLASS next() { return KEY_CLASS.valueOf( NEXT_KEY() ); }

    #endif

    /** This method just throws an { @link UnsupportedOperationException}. */
    public void remove() { throw new UnsupportedOperationException(); }

    /** This method just iterates the type-specific version of { @link #next()} for at most
     * <code>n</code>
     * times, stopping if { @link #hasNext()} becomes false.*/

    public int skip( final int n ) {
        int i = n;
        while( i-- != 0 && hasNext() ) NEXT_KEY();
        return n - i - 1;
    }
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractIterator.drv
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*/

package PACKAGE;

import java.util.Set;

/** A type-specific {@link Set}; provides some additional methods that use polymorphism to avoid (un)boxing.

*

* <P>Additionally, this interface strengthens (again) {@link #iterator()}.

*

* @see Set

*/

public interface SET KEY_GENERIC extends COLLECTION KEY_GENERIC,

Set<KEY_GENERIC_CLASS> {

/** Returns a type-specific iterator on the elements of this set.

*

* <p>Note that this specification strengthens the one given in {@link java.lang.Iterable#iterator()},

* which was already strengthened in the corresponding type-specific class,

* but was weakened by the fact that this interface extends {@link Set}.

*

* @return a type-specific iterator on the elements of this set.

*/

KEY_ITERATOR KEY_GENERIC iterator();

/** Removes an element from this set.

*

* <p>Note that the corresponding method of the type-specific collection is `rem()`.

* This unfortunate situation is caused by the clash

```

* with the similarly named index-based method in the {@link java.util.List} interface.
*
* @see java.util.Collection#remove(Object)
*/
public boolean remove( KEY_TYPE k );
}

```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Set.drv
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* limitations under the License.
*/

```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.BigListIterator;
```

```

/** A type-specific {@link BigListIterator}.
*
* <p>This interface adds a skipping method that take longs.
*
* @see BigListIterator
*/

```

```

public interface KEY_BIG_LIST_ITERATOR KEY_GENERIC extends KEY_BIDI_ITERATOR
KEY_GENERIC, BigListIterator<KEY_GENERIC_CLASS>
{
    #if #keys(primitive)
    void set( KEY_TYPE k );
    void add( KEY_TYPE k );
    #endif
    void set( KEY_GENERIC_CLASS k );
    void add( KEY_GENERIC_CLASS k );
}

```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigListIterator.drv
```

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```

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```

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```

```
*/
```

```
package PACKAGE;
```

```
/** An abstract class facilitating the creation of type-specific { @link plain it.unimi.dsi.fastutil.BidirectionalIterator  
bidirectional iterators }.
```

```
*
```

```
* <P>To create a type-specific bidirectional iterator, besides what is needed
```

```
* for an iterator you need both a method returning the previous element
```

```
as
```

```
* primitive type and a method returning the previous element as an
```

```
* object. However, if you inherit from this class you need just one (anyone).
```

```
*
```

```
* <P>This class implements also a trivial version of { @link #back(int) } that
```

```
* uses type-specific methods.
```

```
*/
```

```
public abstract class KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC extends
```

```
KEY_ABSTRACT_ITERATOR KEY_GENERIC implements KEY_BIDI_ITERATOR KEY_GENERIC {
```

```
protected KEY_ABSTRACT_BIDI_ITERATOR() {}
```

```
#if #keys(primitive)
```

```
/** Delegates to the corresponding generic method. */
```

```
public KEY_TYPE PREV_KEY() { return previous().KEY_VALUE(); }
```

```

/** Delegates to the corresponding type-specific method. */
public KEY_GENERIC_CLASS previous() { return KEY_CLASS.valueOf( PREV_KEY() ); }

#endif

/** This method just iterates the type-specific version of { @link #previous()} for
 * at most <code>n</code> times, stopping if { @link
 * #hasPrevious()} becomes false. */
public int back( final int n ) {
    int i = n;
    while( i-- != 0 &&
hasPrevious() ) PREV_KEY();
    return n - i - 1;
}

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/AbstractBidirectionalIterator.drv

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 * limitations under the License.
 */

```

```

package PACKAGE;

```

```

#if #keyclass(Object)
import java.util.Arrays;
import java.util.Comparator;
import it.unimi.dsi.fastutil.AbstractPriorityQueue;
#endif

```

```

import java.util.NoSuchElementException;

```

```

/** A type-specific array-based priority queue.
 *
 * <P>Instances of this class represent a priority queue
 * using a backing
 * array&mdash;all operations are performed directly on the array. The array is
 * enlarged as needed, but it is never shrunk. Use the {@link #trim()} method
 * to reduce its size, if necessary.
 *
 * <P>This implementation is extremely inefficient, but it is difficult to beat
 * when the size of the queue is very small.
 */

public class ARRAY_PRIORITY_QUEUE KEY_GENERIC extends ABSTRACT_PRIORITY_QUEUE
KEY_GENERIC implements java.io.Serializable {
    private static final long serialVersionUID = 1L;

    /** The backing array. */
    SUPPRESS_WARNINGS_KEY_UNCHECKED
    protected transient KEY_GENERIC_TYPE array[] = KEY_GENERIC_ARRAY_CAST
    ARRAYS.EMPTY_ARRAY;

    /** The number of elements in this queue. */
    protected int size;

    /** The type-specific comparator used in this queue. */
    protected KEY_COMPARATOR KEY_SUPER_GENERIC c;

    /** The first index, cached, if {@link #firstIndexValid} is true. */
    transient protected int firstIndex;

    /** Whether {@link #firstIndex} contains
    a valid value. */
    transient protected boolean firstIndexValid;

    /** Creates a new empty queue with a given capacity and comparator.
    *
    * @param capacity the initial capacity of this queue.
    * @param c the comparator used in this queue, or <code>null</code> for the natural order.
    */
    SUPPRESS_WARNINGS_KEY_UNCHECKED
    public ARRAY_PRIORITY_QUEUE( int capacity, KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
        if ( capacity > 0 ) this.array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ capacity ];
        this.c = c;
    }

    /** Creates a new empty queue with a given capacity and using the natural order.
    *

```

```

* @param capacity the initial capacity of this queue.
*/
public ARRAY_PRIORITY_QUEUE( int capacity ) {
    this( capacity, null );
}

/** Creates a new empty queue with a given comparator.
*
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_PRIORITY_QUEUE( KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( 0, c );
}

/** Creates a new empty
queue using the natural order.
*/
public ARRAY_PRIORITY_QUEUE() {
    this( 0, null );
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param a an array.
* @param size the number of elements to be included in the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a, int size, final KEY_COMPARATOR
KEY_SUPER_GENERIC c ) {
    this( c );
    this.array = a;
    this.size = size;
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param a an array.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a, final KEY_COMPARATOR
KEY_SUPER_GENERIC c ) {
    this( a, a.length, c );
}

```

```

/**
Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param a an array.
* @param size the number of elements to be included in the queue.
*/
public ARRAY_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a, int size ) {
    this( a, size, null );
}

/** Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param a an array.
*/
public ARRAY_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a ) {
    this( a, a.length );
}

/** Returns the index of the smallest element. */

SUPPRESS_WARNINGS_KEY_UNCHECKED
private int findFirst() {
    if ( firstIndexValid ) return this.firstIndex;
    firstIndexValid = true;
    int i = size;
    int firstIndex = --i;
    KEY_GENERIC_TYPE first = array[ firstIndex ];

    if ( c == null ) { while( i-- != 0 ) if ( KEY_LESS( array[ i ], first ) ) first = array[ firstIndex = i ]; }
    else while(
i-- != 0 ) { if ( c.compare( array[ i ], first ) < 0 ) first = array[ firstIndex = i ]; }

    return this.firstIndex = firstIndex;
}

private void ensureNonEmpty() {
    if ( size == 0 ) throw new NoSuchElementException();
}

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public void enqueue( KEY_GENERIC_TYPE x ) {
    if ( size == array.length ) array = ARRAYS.grow( array, size + 1 );
    if ( firstIndexValid ) {
        if ( c == null ) { if ( KEY_LESS( x, array[ firstIndex ] ) ) firstIndex = size; }
        else if ( c.compare( x, array[ firstIndex ] ) < 0 ) firstIndex = size;
    }
    else firstIndexValid = false;
    array[ size++ ] = x;
}

```

```

public KEY_GENERIC_TYPE DEQUEUE() {
    ensureNonEmpty();
    final int first = findFirst();
    final KEY_GENERIC_TYPE result = array[ first ];
    System.arraycopy( array, first + 1, array, first, --size - first );
    #if #keyclass(Object)
        array[ size ] = null;
    #endif
    firstIndexValid = false;
    return result;
}

```

```

public KEY_GENERIC_TYPE FIRST() {
    ensureNonEmpty();
    return
    array[ findFirst() ];
}

```

```

public void changed() {
    ensureNonEmpty();
    firstIndexValid = false;
}

```

```

public int size() { return size; }

```

```

public void clear() {
    #if #keyclass(Object)
        Arrays.fill( array, 0, size, null );
    #endif
    size = 0;
    firstIndexValid = false;
}

```

```

/** Trims the underlying array so that it has exactly { @link #size() } elements.
*/

```

```

public void trim() {
    array = ARRAYS.trim( array, size );
}

```

```

}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return c; }

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    s.defaultWriteObject();
    s.writeInt( array.length );
    for( int i = 0; i < size; i++ ) s.WRITE_KEY( array[ i ] );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();
    array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ s.readInt() ];
    for( int i = 0; i < size; i++ ) array[ i ] = KEY_GENERIC_CAST s.READ_KEY();
}
}

```

Found

in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayPriorityQueue.drv
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/*

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*/

package PACKAGE;

import java.util.List;

import it.unimi.dsi.fastutil.BigList;

#if ! #keyclass(Reference)

/** A type-specific {@link BigList}; provides some additional methods that use polymorphism to avoid (un)boxing.

```

*
* <P>Additionally, this interface strengthens { @link #iterator()}, { @link #listIterator()},
* { @link #listIterator(long)} and { @link #subList(long,long)}.
*
* <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
* sublists. Although the abstract implementation of this interface provides simple, one-by-one implementations
* of these methods, it is expected that concrete implementation override them with optimized versions.
*
* @see List
*/

```

```

public interface BIG_LIST KEY_GENERIC extends BigList<KEY_GENERIC_CLASS>, COLLECTION
KEY_GENERIC, Comparable<BigList<? extends KEY_GENERIC_CLASS>> {
#else

```

```

/** A type-specific { @link BigList}; provides some additional methods that use polymorphism to avoid (un)boxing.

```

```

*
* <P>Additionally, this interface strengthens { @link #iterator()}, { @link #listIterator()},
* { @link #listIterator(long)} and { @link #subList(long,long)}.
*
* <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
* sublists. Although the abstract implementation
of this interface provides simple, one-by-one implementations
* of these methods, it is expected that concrete implementation override them with optimized versions.
*
* @see List
*/

```

```

public interface BIG_LIST KEY_GENERIC extends BigList<KEY_GENERIC_CLASS>, COLLECTION
KEY_GENERIC {
#endif

```

```

/** Returns a type-specific big-list iterator on this type-specific big list.

```

```

*
* @see List#iterator()
*/

```

```

KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator();

```

```

/** Returns a type-specific big-list iterator on this type-specific big list.

```

```

*
* @see List#listIterator()
*/

```

```

KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator();

```

```

/** Returns a type-specific list iterator on this type-specific big list starting at a given index.

```

```

*

```

```

* @see BigList#listIterator(long)
*/
KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( long index );

/** Returns a type-specific view of the portion of this type-specific big list from the index <code>from</code>,
inclusive, to the index <code>to</code>,
exclusive.
*
* <P>Note that this specification strengthens the one given in { @link BigList#subList(long,long)}.
*
* @see BigList#subList(long,long)
*/
BIG_LIST KEY_GENERIC subList( long from, long to );

/** Copies (hopefully quickly) elements of this type-specific big list into the given big array.
*
* @param from the start index (inclusive).
* @param a the destination big array.
* @param offset the offset into the destination big array where to store the first element copied.
* @param length the number of elements to be copied.
*/
void getElements( long from, KEY_TYPE a[], long offset, long length );

/** Removes (hopefully quickly) elements of this type-specific big list.
*
* @param from the start index (inclusive).
* @param to the end index (exclusive).
*/
void removeElements( long from, long to );

/** Add (hopefully quickly) elements to this type-specific big list.
*
* @param index the index at which to add elements.
* @param a the big
array containing the elements.
*/
void addElements( long index, KEY_GENERIC_TYPE a[] );

/** Add (hopefully quickly) elements to this type-specific big list.
*
* @param index the index at which to add elements.
* @param a the big array containing the elements.
* @param offset the offset of the first element to add.
* @param length the number of elements to add.
*/
void addElements( long index, KEY_GENERIC_TYPE a[], long offset, long length );

#if #keys(primitive)

```

```

/**
 * @see List#add(int,Object)
 */
void add( long index, KEY_TYPE key );

/**
 * @see List#addAll(int,java.util.Collection)
 */
boolean addAll( long index, COLLECTION c );

/**
 * @see List#addAll(int,java.util.Collection)
 */
boolean addAll( long index, BIG_LIST c );

/**
 * @see List#addAll(int,java.util.Collection)
 */
boolean addAll( BIG_LIST c );

/**
 * @see BigList#get(long)
 */
KEY_TYPE GET_KEY( long index );

/**
 * @see BigList#indexOf(Object)
 */
long indexOf( KEY_TYPE
k );

/**
 * @see BigList#lastIndexOf(Object)
 */
long lastIndexOf( KEY_TYPE k );

/**
 * @see BigList#remove(long)
 */
KEY_TYPE REMOVE_KEY( long index );

/**
 * @see BigList#set(long,Object)
 */
KEY_TYPE set( long index, KEY_TYPE k );

#endif

```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigList.drv
```

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```
/*
```

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```

```
*
```

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```
* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.IndirectPriorityQueue;
```

```
/** A type-specific { @link IndirectPriorityQueue }.
```

```
*
```

```
* <P>Additionally, this interface strengthens { @link #comparator() }.
```

```
*/
```

```
public interface INDIRECT_PRIORITY_QUEUE extends IndirectPriorityQueue<KEY_CLASS> {
```

```
    /** Returns
```

```
    the comparator associated with this queue.
```

```
    *
```

```
    * Note that this specification strengthens the one given in { @link IndirectPriorityQueue }.
```

```
    *
```

```
    * @return the comparator associated with this queue.
```

```
    * @see IndirectPriorityQueue#comparator()
```

```
    */
```

```
    KEY_COMPARATOR comparator();
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/IndirectPriorityQueue.drv
```

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```
/*
 * fastutil: Fast & compact type-specific collections for Java
 *
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 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
 */
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/InspectableFileCachedInputStreamTest.java
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```

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 *
 *
 *
 * For the sorting and binary search code:
 *
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*/

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleArrays.java

*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteArrays.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectArrays.java

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*/

```

#if #keyclass(Byte)

// HORRIBLE kluges to work around bug #6478546

private final static int MAX_IO_LENGTH = 1024 * 1024;

private static int read( final InputStream is, final byte a[], final int offset, final int length ) throws IOException {
    if ( length == 0 ) return 0;

    int read = 0, result;
    do {
        result
    = is.read( a, offset + read, Math.min( length - read, MAX_IO_LENGTH ) );
        if ( result < 0 ) return read;
        read += result;
    } while( read < length );

    return read;
}

private static void write( final OutputStream outputStream, final byte a[], final int offset, final int length ) throws
IOException {
    int written = 0;
    while( written < length ) {
        outputStream.write( a, offset + written, Math.min( length - written, MAX_IO_LENGTH ) );
        written += Math.min( length - written, MAX_IO_LENGTH );
    }
}

private static void write( final DataOutput dataOutput, final byte a[], final int offset, final int length ) throws
IOException {
    int written = 0;
    while( written < length ) {
        dataOutput.write( a, offset + written, Math.min( length - written, MAX_IO_LENGTH ) );
        written += Math.min( length - written, MAX_IO_LENGTH );
    }
}

// Additional read/write methods to work around the DataInput/DataOutput schizophrenia.

/** Loads bytes from a given input stream, storing them in a given array
    fragment.
    *
    * <p>Note that this method is going to be significantly faster than { @link #loadBytes(DataInput,byte[],int,int) }
    * as it uses { @link InputStream}'s bulk-read methods.

```

```

*
* @param inputStream an input stream.
* @param array an array which will be filled with data from <code>inputStream</code>.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length the number of elements of <code>array</code> to be filled.
* @return the number of elements actually read from <code>inputStream</code> (it might be less than
<code>length</code> if <code>inputStream</code> ends).
*/
public static int LOAD_KEYS( final InputStream inputStream, final KEY_TYPE[] array, final int offset, final int
length ) throws IOException {
    return read( inputStream, array, offset, length );
}

/** Loads bytes from a given input stream, storing them in a given array.
*
* <p>Note that this method is going to be significantly faster than { @link #loadBytes(DataInput,byte[])}
* as it uses { @link InputStream}'s bulk-read methods.
*
* @param inputStream an input stream.
* @param array an array which will be filled with data from <code>inputStream</code>.
* @return the number of elements actually read from <code>inputStream</code> (it might be less than the array
length if <code>inputStream</code> ends).
*/
public static int LOAD_KEYS( final InputStream inputStream, final KEY_TYPE[] array ) throws IOException {
    return read( inputStream, array, 0, array.length );
}

/** Stores an array fragment to a given output stream.
*
* <p>Note that this method is going to be significantly faster than { @link #storeBytes(byte[],int,int,DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*
* @param array an array whose elements will be written to <code>outputStream</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param
    outputStream an output stream.
*/
public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length, final OutputStream
outputStream ) throws IOException {
    write( outputStream, array, offset, length );
}

/** Stores an array to a given output stream.
*
* <p>Note that this method is going to be significantly faster than { @link #storeBytes(byte[],DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*

```

```

* @param array an array whose elements will be written to <code>outputStream</code>.
* @param outputStream an output stream.
*/
public static void STORE_KEYS( final KEY_TYPE array[], final OutputStream outputStream ) throws
IOException {
    write( outputStream, array, 0, array.length );
}

private static long read( final InputStream is, final byte a[], final long offset, final long length ) throws
IOException {
    if ( length == 0 ) return 0;

    long read = 0;
    int segment = segment( offset );
    int displacement = displacement( offset );
    int
    result;
    do {
        result = is.read( a[ segment ], displacement, (int)Math.min( a[ segment ].length - displacement, Math.min( length -
read, MAX_IO_LENGTH ) ) );
        if ( result < 0 ) return read;
        read += result;
        displacement += result;
        if ( displacement == a[ segment ].length ) {
            segment++;
            displacement = 0;
        }
    } while( read < length );

    return read;
}

private static void write( final OutputStream outputStream, final byte a[], final long offset, final long length )
throws IOException {
    if ( length == 0 ) return;
    long written = 0;
    int toWrite;
    int segment = segment( offset );
    int displacement = displacement( offset );
    do {
        toWrite = (int)Math.min( a[ segment ].length - displacement, Math.min( length - written, MAX_IO_LENGTH ) );
        outputStream.write( a[ segment ], displacement, toWrite );
        written += toWrite;
        displacement += toWrite;
        if ( displacement == a[ segment ].length ) {
            segment++;
            displacement = 0;
        }
    }
}

```

```

    }
    } while( written < length );
}

private
static void write( final DataOutput dataOutput, final byte a[], final long offset, final long length ) throws
IOException {
    if ( length == 0 ) return;
    long written = 0;
    int toWrite;
    int segment = segment( offset );
    int displacement = displacement( offset );
    do {
        toWrite = (int)Math.min( a[ segment ].length - displacement, Math.min( length - written, MAX_IO_LENGTH ) );
        dataOutput.write( a[ segment ], displacement, toWrite );
        written += toWrite;
        displacement += toWrite;
        if ( displacement == a[ segment ].length ) {
            segment++;
            displacement = 0;
        }
    } while( written < length );
}

```

// Additional read/write methods to work around the DataInput/DataOutput schizophrenia.

```

/** Loads bytes from a given input stream, storing them in a given big-array fragment.
 *
 * <p>Note that this method is going to be significantly faster than { @link
 #loadBytes(DataInput,byte[][],long,long)}
 * as it uses { @link InputStream}'s bulk-read methods.
 *
 * @param inputStream an input stream.
 * @param array a big array which will be filled with data from <code>inputStream</code>.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from <code>inputStream</code> (it might be less than
 <code>length</code> if <code>inputStream</code> ends).
 */
public static long LOAD_KEYS( final InputStream inputStream, final KEY_TYPE[][] array, final long offset, final
long length ) throws IOException {
    return read( inputStream, array, offset, length );
}

```

```

/** Loads bytes from a given input stream, storing them in a given big array.
 *
 * <p>Note that this method is going to be significantly faster than { @link #loadBytes(DataInput,byte[][])}

```

```

* as it uses { @link InputStream}'s bulk-read methods.
*
* @param inputStream an input stream.
* @param array a big array which will be filled with data from <code>inputStream</code>.
* @return
the number of elements actually read from <code>inputStream</code> (it might be less than the array length if
<code>inputStream</code> ends).
*/
public static long LOAD_KEYS( final InputStream inputStream, final KEY_TYPE[][] array ) throws IOException {
return read( inputStream, array, 0, BIG_ARRAYS.length( array ) );
}

/** Stores a big-array fragment to a given output stream.
*
* <p>Note that this method is going to be significantly faster than { @link
#storeBytes(byte[][],long,long,DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*
* @param array a big array whose elements will be written to <code>outputStream</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param outputStream an output stream.
*/
public static void STORE_KEYS( final KEY_TYPE array[][], final long offset, final long length, final
OutputStream outputStream ) throws
IOException {
write( outputStream, array, offset, length );
}

/** Stores a big array to a given output stream.
*
* <p>Note that this method is going to be significantly faster than { @link #storeBytes(byte[][],DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*
* @param array a big array whose elements will be written to <code>outputStream</code>.
* @param outputStream an output stream.
*/
public static void STORE_KEYS( final KEY_TYPE array[][], final OutputStream outputStream ) throws
IOException {
write( outputStream, array, 0, BIG_ARRAYS.length( array ) );
}

#endif

/** Loads elements from a given data input, storing them in a given array fragment.
*
* @param dataInput a data input.

```

```

* @param array an array which will be filled with data from <code>dataInput</code>.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length the number of elements of <code>array</code> to be filled.
* @return the number of elements
    actually read from <code>dataInput</code> (it might be less than <code>length</code> if
    <code>dataInput</code> ends).
*/
public static int LOAD_KEYS( final DataInput dataInput, final KEY_TYPE[] array, final int offset, final int length )
throws IOException {
    PACKAGE.ARRAYS.ensureOffsetLength( array, offset, length );
    int i = 0;
    try {
        for( i = 0; i < length; i++ ) array[ i + offset ] = dataInput.READ_KEY();
    }
    catch( EOFException itsOk ) {}
    return i;
}

/** Loads elements from a given data input, storing them in a given array.
*
* @param dataInput a data input.
* @param array an array which will be filled with data from <code>dataInput</code>.
* @return the number of elements actually read from <code>dataInput</code> (it might be less than the array
    length if <code>dataInput</code> ends).
*/
public static int LOAD_KEYS( final DataInput dataInput, final KEY_TYPE[] array ) throws IOException {
    int i = 0;
    try {
        final int length = array.length;
        for( i = 0; i < length;
            i++ ) array[ i ] = dataInput.READ_KEY();
    }
    catch( EOFException itsOk ) {}
    return i;
}

/** Loads elements from a file given by a { @link File } object, storing them in a given array fragment.
*
* @param file a file.
* @param array an array which will be filled with data from the specified file.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length the number of elements of <code>array</code> to be filled.
* @return the number of elements actually read from the given file (it might be less than <code>length</code> if
    the file is too short).
*/
public static int LOAD_KEYS( final File file, final KEY_TYPE[] array, final int offset, final int length ) throws
IOException {
    PACKAGE.ARRAYS.ensureOffsetLength( array, offset, length );

```

```

final FileInputStream fis = new FileInputStream( file );
#if #keyclass(Byte)
final int result = read( fis, array, offset, length );
fis.close();
return result;
#else
final DataInputStream dis = new DataInputStream(
new FastBufferedInputStream( fis ) );

int i = 0;
try {
for( i = 0; i < length; i++ ) array[ i + offset ] = dis.READ_KEY();
}
catch( EOFException itsOk ) {}

dis.close();
return i;
#endif
}

/** Loads elements from a file given by a pathname, storing them in a given array fragment.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static int LOAD_KEYS( final CharSequence filename, final KEY_TYPE[] array, final int offset, final int
length ) throws IOException {
return LOAD_KEYS( new File( filename.toString() ), array, offset, length );
}

/** Loads elements from a file given by a { @link File } object,
storing them in a given array.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
 */
public static int LOAD_KEYS( final File file, final KEY_TYPE[] array ) throws IOException {
final FileInputStream fis = new FileInputStream( file );
#if #keyclass(Byte)
final int result = read( fis, array, 0, array.length );
fis.close();

```

```

return result;
#else
final DataInputStream dis = new DataInputStream( new FastBufferedInputStream( fis ) );

int i = 0;
try {
    final int length = array.length;
    for( i = 0; i < length; i++ ) array[ i ] = dis.READ_KEY();
}
catch( EOFException itsOk ) {}

dis.close();

return i;
#endif
}

/** Loads elements from a file given by a pathname, storing them in a given array.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the
 * specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 * is too short).
 */
public static int LOAD_KEYS( final CharSequence filename, final KEY_TYPE[] array ) throws IOException {
    return LOAD_KEYS( new File( filename.toString() ), array );
}

/** Loads elements from a file given by a { @link File } object, storing them in a new array.
 *
 * <P>Note that the length of the returned array will be computed
 * dividing the specified file size by the number of bytes used to
 * represent each element.
 *
 * @param file a file.
 * @return an array filled with the content of the specified file.
 */
public static KEY_TYPE[] LOAD_KEYS( final File file ) throws IOException {
    final FileInputStream fis = new FileInputStream( file );

    #if #keyclass(Boolean)
    final long length = fis.getChannel().size();
    #else
    final long length = fis.getChannel().size() / ( KEY_CLASS.SIZE / 8 );
    #endif

    if ( length > Integer.MAX_VALUE

```

```

    ) {
        fis.close();
        throw new IllegalArgumentException( "File too long: " + fis.getChannel().size()+ " bytes (" + length + " elements)"
    );
    }

```

```

final KEY_TYPE[] array = new KEY_TYPE[ (int)length ];

```

```

#if #keyclass(Byte)
    if ( read( fis, array, 0, (int)length ) < length ) throw new EOFException();
    fis.close();
#else
    final DataInputStream dis = new DataInputStream( new FastBufferedInputStream( fis ) );
    for( int i = 0; i < length; i++ ) array[ i ] = dis.READ_KEY();
    dis.close();
#endif
    return array;
}

```

```

/** Loads elements from a file given by a filename, storing them in a new array.

```

```

*
* <P>Note that the length of the returned array will be computed
* dividing the specified file size by the number of bytes used to
* represent each element.
*
* @param filename a filename.
* @return an array filled with the content of the specified file.
*/

```

```

public static KEY_TYPE[] LOAD_KEYS( final CharSequence filename ) throws IOException {
    return LOAD_KEYS( new File( filename.toString() ) );
}

```

```

/**
    Stores an array fragment to a given data output.

```

```

*
* @param array an array whose elements will be written to <code>dataOutput</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param dataOutput a data output.
*/

```

```

public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length, final DataOutput
dataOutput ) throws IOException {
    PACKAGE.ARRAYS.ensureOffsetLength( array, offset, length );
    #if #keyclass(Byte)
        write( dataOutput, array, offset, length );
    #else
        for( int i = 0; i < length; i++ ) dataOutput.WRITE_KEY( array[ offset + i ] );
    #endif
}

```

```

}

/** Stores an array to a given data output.
 *
 * @param array an array whose elements will be written to <code>dataOutput</code>.
 * @param dataOutput a data output.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final DataOutput dataOutput ) throws IOException {
    #if #keyclass(Byte)
        write(
            dataOutput, array, 0, array.length );
    #else
        final int length = array.length;
        for( int i = 0; i < length; i++ ) dataOutput.WRITE_KEY( array[ i ] );
    #endif
}

/** Stores an array fragment to a file given by a { @link File } object.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length, final File file ) throws
IOException {
    PACKAGE.ARRAYS.ensureOffsetLength( array, offset, length );
    #if #keyclass(Byte)
        final OutputStream os = new FastBufferedOutputStream( new FileOutputStream( file ) );
        write( os, array, offset, length );
        os.close();
    #else
        final DataOutputStream dos = new DataOutputStream( new FastBufferedOutputStream( new FileOutputStream( file
        ) ) );
        for( int i
            = 0; i < length; i++ ) dos.WRITE_KEY( array[ offset + i ] );
        dos.close();
    #endif
}

/** Stores an array fragment to a file given by a pathname.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length, final CharSequence

```

```

filename ) throws IOException {
    STORE_KEYS( array, offset, length, new File( filename.toString() ) );
}

/** Stores an array to a file given by a { @link File } object.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final File file ) throws IOException {
    #if #keyclass(Byte)
    final OutputStream os = new FastBufferedOutputStream( new FileOutputStream(
    file ) );
    write( os, array, 0, array.length );
    os.close();
    #else
    final int length = array.length;
    final DataOutputStream dos = new DataOutputStream( new FastBufferedOutputStream( new FileOutputStream( file
    ) ) );
    for( int i = 0; i < length; i++ ) dos.WRITE_KEY( array[ i ] );
    dos.close();
    #endif
}

/** Stores an array to a file given by a pathname.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final CharSequence filename ) throws IOException {
    STORE_KEYS( array, new File( filename.toString() ) );
}

/** Loads elements from a given data input, storing them in a given big-array fragment.
 *
 * @param dataInput a data input.
 * @param array a big array which will be filled with data from <code>dataInput</code>.
 * @param offset the index of the first element of <code>bigArray</code> to be filled.
 * @param length the number of elements of <code>bigArray</code>
    to be filled.
 * @return the number of elements actually read from <code>dataInput</code> (it might be less than
    <code>length</code> if <code>dataInput</code> ends).
 */
public static long LOAD_KEYS( final DataInput dataInput, final KEY_TYPE[][] array, final long offset, final long

```

```

length ) throws IOException {
    PACKAGE.BIG_ARRAYS.ensureOffsetLength( array, offset, length );
    long c = 0;
    try {
        for( int i = segment( offset ); i < segment( offset + length + SEGMENT_MASK ); i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = (int)Math.min( t.length, offset + length - start( i ) );
            for( int d = (int)Math.max( 0, offset - start( i ) ); d < l; d++ ) {
                t[ d ] = dataInput.READ_KEY();
                c++;
            }
        }
    }
    catch( EOFException itsOk ) {}
    return c;
}

/** Loads elements from a given data input, storing them in a given big array.
 *
 * @param dataInput a data input.
 * @param array a big array which will be filled with data from <code>dataInput</code>.
 * @return
 * the number of elements actually read from <code>dataInput</code> (it might be less than the array length if
 * <code>dataInput</code> ends).
 */
public static long LOAD_KEYS( final DataInput dataInput, final KEY_TYPE[][] array ) throws IOException {
    long c = 0;
    try {
        for( int i = 0; i < array.length; i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = t.length;
            for( int d = 0; d < l; d++ ) {
                t[ d ] = dataInput.READ_KEY();
                c++;
            }
        }
    }
    catch( EOFException itsOk ) {}
    return c;
}

/** Loads elements from a file given by a { @link File } object, storing them in a given big-array fragment.
 *
 * @param file a file.
 * @param array a big array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code>

```

```

if the file is too short).
*/
public static long LOAD_KEYS( final File file, final KEY_TYPE[][] array, final long offset, final long length )
throws IOException {
    PACKAGE.BIG_ARRAYS.ensureOffsetLength( array, offset, length );

    final FileInputStream fis = new FileInputStream( file );
    #if #keyclass(Byte)
    final long result = read( fis, array, offset, length );
    fis.close();
    return result;
    #else
    final DataInputStream dis = new DataInputStream( new FastBufferedInputStream( fis ) );

    long c = 0;
    try {
        for( int i = segment( offset ); i < segment( offset + length + SEGMENT_MASK ); i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = (int)Math.min( t.length, offset + length - start( i ) );
            for( int d = (int)Math.max( 0, offset - start( i ) ); d < l; d++ ) {
                t[ d ] = dis.READ_KEY();
                c++;
            }
        }
    }
    catch( EOFException itsOk ) {}
    dis.close();
    return c;
    #endif
}

/** Loads elements from a file given by a pathname, storing them in a given big-array fragment.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static long LOAD_KEYS( final CharSequence filename, final KEY_TYPE[][] array, final long offset, final
long length ) throws IOException {
    return LOAD_KEYS( new File( filename.toString() ), array, offset, length );
}

/** Loads elements from a file given by a { @link File } object, storing them in a given big array.
 *
 * @param file a file.

```

```

* @param array a big array which will be filled with data from the specified file.
* @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
*/
public static long
LOAD_KEYS( final File file, final KEY_TYPE[][] array ) throws IOException {
    final FileInputStream fis = new FileInputStream( file );
    #if #keyclass(Byte)
    final long result = read( fis, array, 0, BIG_ARRAYS.length( array ) );
    fis.close();
    return result;
    #else
    final DataInputStream dis = new DataInputStream( new FastBufferedInputStream( fis ) );

    long c = 0;
    try {
        for( int i = 0; i < array.length; i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = t.length;
            for( int d = 0; d < l; d++ ) {
                t[ d ] = dis.READ_KEY();
                c++;
            }
        }
    }
    catch( EOFException itsOk ) {}

    dis.close();

    return c;
    #endif
}

/** Loads elements from a file given by a pathname, storing them in a given big array.
*
* @param filename a filename.
* @param array a big array which will be filled with data from the specified file.
* @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
*/
public static long LOAD_KEYS(
    final CharSequence filename, final KEY_TYPE[][] array ) throws IOException {
    return LOAD_KEYS( new File( filename.toString() ), array );
}

/** Loads elements from a file given by a { @link File } object, storing them in a new big array.
*
* <P>Note that the length of the returned big array will be computed

```

```

* dividing the specified file size by the number of bytes used to
* represent each element.
*
* @param file a file.
* @return a big array filled with the content of the specified file.
*/
public static KEY_TYPE[][] LOAD_KEYS_BIG( final File file ) throws IOException {
    final FileInputStream fis = new FileInputStream( file );

    #if #keyclass(Boolean)
        final long length = fis.getChannel().size();
    #else
        final long length = fis.getChannel().size() / ( KEY_CLASS.SIZE / 8 );
    #endif

    final KEY_TYPE[][] array = BIG_ARRAYS.newBigArray( length );

    #if #keyclass(Byte)
        if ( read( fis, array, 0, length ) < length ) throw new EOFException();
        fis.close();
    #else
        final DataInputStream
        dis = new DataInputStream( new FastBufferedInputStream( fis ) );

        for( int i = 0; i < array.length; i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = t.length;
            for( int d = 0; d < l; d++ ) t[ d ] = dis.READ_KEY();
        }

        dis.close();
    #endif
    return array;
}

/** Loads elements from a file given by a filename, storing them in a new big array.
*
* <P>Note that the length of the returned big array will be computed
* dividing the specified file size by the number of bytes used to
* represent each element.
*
* @param filename a filename.
* @return a big array filled with the content of the specified file.
*/
public static KEY_TYPE[][] LOAD_KEYS_BIG( final CharSequence filename ) throws IOException {
    return LOAD_KEYS_BIG( new File( filename.toString() ) );
}

```

```

/** Stores an array fragment to a given data output.
 *
 * @param array an array whose elements will be written to <code>dataOutput</code>.
 * @param offset the index of the first element of <code>array</code>
to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param dataOutput a data output.
 */
public static void STORE_KEYS( final KEY_TYPE array[][], final long offset, final long length, final DataOutput
dataOutput ) throws IOException {
    PACKAGE.BIG_ARRAYS.ensureOffsetLength( array, offset, length );
    #if #keyclass(Byte)
        write( dataOutput, array, offset, length );
    #else
        for( int i = segment( offset ); i < segment( offset + length + SEGMENT_MASK ); i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = (int)Math.min( t.length, offset + length - start( i ) );
            for( int d = (int)Math.max( 0, offset - start( i ) ); d < l; d++ ) dataOutput.WRITE_KEY( t[ d ] );
        }
    #endif
}

/** Stores a big array to a given data output.
 *
 * @param array a big array whose elements will be written to <code>dataOutput</code>.
 * @param dataOutput a data output.
 */
public static void STORE_KEYS( final KEY_TYPE array[][], final DataOutput dataOutput ) throws IOException
{
    #if #keyclass(Byte)
        write( dataOutput, array, 0, BIG_ARRAYS.length( array ) );
    #else
        for( int i = 0; i < array.length; i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = t.length;
            for( int d = 0; d < l; d++ ) dataOutput.WRITE_KEY( t[ d ] );
        }
    #endif
}

/** Stores a big-array fragment to a file given by a { @link File } object.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_TYPE array[][], final long offset, final long length, final File file )

```

```

throws IOException {
    PACKAGE.BIG_ARRAYS.ensureOffsetLength( array, offset, length );
    #if #keyclass(Byte)
        final OutputStream os = new FastBufferedOutputStream( new FileOutputStream( file ) );
        write( os, array, offset, length );
        os.close();
    #else
        final DataOutputStream
        dos = new DataOutputStream( new FastBufferedOutputStream( new FileOutputStream( file ) ) );
        for( int i = segment( offset ); i < segment( offset + length + SEGMENT_MASK ); i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = (int)Math.min( t.length, offset + length - start( i ) );
            for( int d = (int)Math.max( 0, offset - start( i ) ); d < l; d++ ) dos.WRITE_KEY( t[ d ] );
        }
        dos.close();

    #endif
}

/** Stores a big-array fragment to a file given by a pathname.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_TYPE array[][], final long offset, final long length, final
CharSequence filename ) throws IOException {
    STORE_KEYS( array, offset, length, new File( filename.toString() ) );
}

/** Stores
an array to a file given by a { @link File } object.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_TYPE array[][], final File file ) throws IOException {
    #if #keyclass(Byte)
        final OutputStream os = new FastBufferedOutputStream( new FileOutputStream( file ) );
        write( os, array, 0, BIG_ARRAYS.length( array ) );
        os.close();
    #else
        final DataOutputStream dos = new DataOutputStream( new FastBufferedOutputStream( new FileOutputStream( file
) ) );
        for( int i = 0; i < array.length; i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = t.length;

```

```

    for( int d = 0; d < l; d++ ) dos.WRITE_KEY( t[ d ] );
    }
    dos.close();
#endif
}

/** Stores a big array to a file given by a pathname.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_TYPE array[[]], final CharSequence filename
) throws IOException {
    STORE_KEYS( array, new File( filename.toString() ) );
}

/** Stores the element returned by an iterator to a given data output.
 *
 * @param i an iterator whose output will be written to <code>dataOutput</code>.
 * @param dataOutput a filename.
 */
public static void STORE_KEYS( final KEY_ITERATOR i, final DataOutput dataOutput ) throws IOException {
    while( i.hasNext() ) dataOutput.WRITE_KEY( i.NEXT_KEY() );
}

/** Stores the element returned by an iterator to a file given by a { @link File} object.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_ITERATOR i, final File file ) throws IOException {
    final DataOutputStream dos = new DataOutputStream( new FastBufferedOutputStream( new FileOutputStream( file
) ) );
    while( i.hasNext() ) dos.WRITE_KEY( i.NEXT_KEY() );
    dos.close();
}

/** Stores the element returned by an iterator to a file given by a pathname.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_ITERATOR i, final CharSequence filename ) throws IOException {
    STORE_KEYS( i, new File( filename.toString() ) );
}

```

```

/** A wrapper that exhibits the content of a data input stream as a type-specific iterator. */

final private static class KEY_DATA_INPUT_WRAPPER extends KEY_ABSTRACT_ITERATOR {
    final private DataInput dataInput;
    private boolean toAdvance = true;
    private boolean endOfProcess = false;
    private KEY_TYPE next;

    public KEY_DATA_INPUT_WRAPPER( final DataInput dataInput ) {
        this.dataInput = dataInput;
    }

    public boolean hasNext() {
        if ( ! toAdvance ) return ! endOfProcess;

        toAdvance = false;

        try {
            next = dataInput.READ_KEY();
        }
        catch( EOFException eof ) {
            endOfProcess = true;
        }
        catch( IOException rethrow ) { throw new RuntimeException( rethrow ); }

        return ! endOfProcess;
    }

    public KEY_TYPE
    NEXT_KEY() {
        if (! hasNext()) throw new NoSuchElementException();
        toAdvance = true;
        return next;
    }
}

/** Wraps the given data input stream into an iterator.
 *
 * @param dataInput a data input.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR( final DataInput dataInput ) {
    return new KEY_DATA_INPUT_WRAPPER( dataInput );
}

/** Wraps a file given by a { @link File } object into an iterator.

```

```

*
* @param file a file.
*/
public static KEY_ITERATOR AS_KEY_ITERATOR( final File file ) throws IOException {
    return new KEY_DATA_INPUT_WRAPPER( new DataInputStream( new FastBufferedInputStream( new
FileInputStream( file ) ) ) );
}

/** Wraps a file given by a pathname into an iterator.
*
* @param filename a filename.
*/
public static KEY_ITERATOR AS_KEY_ITERATOR( final CharSequence filename ) throws IOException {
    return AS_KEY_ITERATOR( new File( filename.toString() ) );
}

/** Wraps a file given by a {@link File} object into an iterable object.
*
* @param file a file.
*/
public
static KEY_ITERABLE AS_KEY_ITERABLE( final File file ) {
    return new KEY_ITERABLE() {
        public KEY_ITERATOR iterator() {
            try {
                return AS_KEY_ITERATOR( file );
            }
            catch( IOException e ) {
                throw new RuntimeException( e );
            }
        }
    };
}

/** Wraps a file given by a pathname into an iterable object.
*
* @param filename a filename.
*/
public static KEY_ITERABLE AS_KEY_ITERABLE( final CharSequence filename ) {
    return new KEY_ITERABLE() {
        public KEY_ITERATOR iterator() {
            try {
                return AS_KEY_ITERATOR( filename );
            }
            catch( IOException e ) {
                throw new RuntimeException( e );
            }
        }
    }
}

```

```
};  
}
```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BinIOFragment.drv

No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2FloatSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntComparator.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ObjectFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObjectBigListIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectOpenHashMap.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2CharOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanRBTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteRBTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntLinkedOpenHashMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectRBTreeMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatLinkedOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatArrayList.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharOpenCustomHashMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2LongSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongIterator.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/booleans/BooleanComparator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ShortAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2FloatSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ShortLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2LongMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2LongFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatBigLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceOpenHashBigSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ReferenceSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2FloatOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2FloatSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2FloatMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2FloatAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2CharAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2CharMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2DoubleOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2BooleanMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2BooleanFunctions.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteSets.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharMaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortAVLTreeMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBidirectionalIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2CharSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2ShortSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2BooleanSortedMap.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ReferenceSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceRBTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceCollection.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2FloatMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatComparator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntRBTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/chars/Char2CharSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2IntOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2BooleanFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteArrayList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortIterable.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2CharOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2CharOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLongList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2IntFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2BooleanAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2FloatLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2FloatSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntComparator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2CharFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortAVLTreeSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanHash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatHash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleLinkedOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/int/Int2BooleanLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/Int2ByteRBTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ShortOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2CharMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2FloatFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/AbstractInt2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ReferenceSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/Int2LongSortedMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/Hash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ByteOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2BooleanMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/IntArrayFrontCodedList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/objects/ObjectLists.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2LongMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2IntRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteIterable.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2CharMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2IntFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2DoubleOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2CharAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ByteSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2IntSortedMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ObjectOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ReferenceMaps.java

*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntLinkedOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleComparator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongAVLTreeSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ByteSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortOpenCustomHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteSortedSets.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharStack.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ByteSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrayFrontCodedList.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanOpenHashMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharAVLTreeSet.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2FloatFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2BooleanFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ObjectFunction.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2LongMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2LongAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigListIterators.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/objects/AbstractObject2ByteSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2DoubleOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2FloatSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2DoubleFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongBidirectionalIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2FloatOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2IntMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongIterators.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ShortRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ShortAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortComparator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ByteSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ByteMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ReferenceMaps.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortCollections.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleCollections.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2FloatMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2CharSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2FloatMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBigListIterators.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/objects/Object2CharLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ByteSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteBigLists.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2BooleanFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2DoubleAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2IntOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ByteOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectOpenCustomHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2FloatMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2CharSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceLinkedOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractChar2ReferenceSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2FloatSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2FloatFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2FloatOpenHashMap.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceOpenHashSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongBidirectionalIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntAVLTreeMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ShortMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatOpenHashMap.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortSortedSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanAVLTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharListIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntSets.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceAVLTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/objects/Object2ShortLinkedOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2DoubleFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2ObjectMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2LongAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortBidirectionalIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ShortRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2DoubleAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObjectList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2CharAVLTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2FloatFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractChar2FloatFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2FloatRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ByteSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleComparator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ByteRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ObjectLinkedOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteOpenCustomHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrayList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/HashCommon.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/longs/Long2CharFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2FloatSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2IntOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2DoubleFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ByteMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2DoubleRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2BooleanOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2CharFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortLinkedOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongOpenCustomHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloatIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2CharOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ObjectSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2IntFunction.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteOpenHashMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharRBTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2CharMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/AbstractStack.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectFunction.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanRBTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectMaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectOpenCustomHashSet.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2BooleanOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortSortedMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2FloatSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2DoubleFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2CharLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectAVLTreeSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongCollections.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2IntMaps.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2DoubleFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2FloatAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2FloatOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongSortedSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongRBTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2FloatMap.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharBidirectionalIterator.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanList.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatFunctions.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleRBTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ReferenceMap.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteMaps.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortBigListIterator.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/AbstractIntStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/AbstractInt2ReferenceSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2DoubleSortedMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2FloatSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongIterable.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharFunction.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharMaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2ReferenceSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ReferenceLinkedOpenHashMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortSets.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIterator.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectRBTreeSet.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2IntRBTreeMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ShortSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ObjectMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBidirectionalIterator.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/ints/AbstractInt2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ByteFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ByteSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleLinkedOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2CharMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2DoubleRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortHash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2CharFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2CharOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2LongFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ByteRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatSortedSets.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntOpenCustomHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIterators.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ByteSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectRBTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongHash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatAVLTreeSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2FloatFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ByteMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleRBTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ShortLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2DoubleLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ByteMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractChar2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2LongMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectIterators.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ObjectFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLongListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2BooleanFunction.java

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*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteLinkedOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ByteAVLTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharComparator.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleIterators.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2DoubleFunction.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2FloatSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongArrayFrontCodedList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2LongMap.java
*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteLinkedOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBigListIterators.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigArrayBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ByteSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2LongFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2BooleanMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByteCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2FloatMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2LongSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2FloatOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2FloatSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ObjectLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ByteFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatLinkedOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ReferenceSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceOpenHashMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2FloatMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanIterable.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2BooleanSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleSortedSets.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharRBTreeMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatIterator.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortSet.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ReferenceMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/longs/LongSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2FloatAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2FloatRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2FloatMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2FloatRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2FloatFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ReferenceOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ReferenceOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongRBTreeSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatRBTreeSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanBigLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/BidirectionalIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2CharFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2BooleanFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ShortRBTreeMap.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ReferenceLinkedOpenHashMap.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleSet.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectSortedMaps.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectFunctions.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteListIterator.java
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 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatSets.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanOpenHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortOpenCustomHashMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntCollection.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanAVLTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteFunction.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ReferenceFunction.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntRBTreeMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ReferenceMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharSortedMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/longs/Long2ObjectOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2FloatFunctions.java
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jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ByteOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceBigLists.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2DoubleAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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jar/it/unimi/dsi/fastutil/objects/Object2BooleanLinkedOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleListIterator.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2FloatFunction.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ReferenceAVLTreeMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleSet.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ReferenceSortedMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2CharFunctions.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
 jar/it/unimi/dsi/fastutil/ints/IntHash.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
 jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ByteMap.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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 jar/it/unimi/dsi/fastutil/bytes/ByteStack.java
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ReferenceMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectIterable.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharLinkedOpenHashMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectBidirectionalIterator.java
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*
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongRBTreeMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleFunction.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigArrayBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntOpenHashBigSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleOpenHashBigSet.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatCollections.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanCollections.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceSortedSet.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatBidirectionalIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ObjectFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanStack.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanOpenHashMap.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanMaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2FloatMap.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrayFrontCodedList.java
*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ObjectFunction.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectArrayList.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceLinkedOpenHashMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObjectSet.java
*
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ObjectLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharArrayFrontCodedList.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2LongFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/objects/Object2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2FloatLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ObjectAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByteListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2DoubleMap.java
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jar/it/unimi/dsi/fastutil/doubles/Double2ByteAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2LongMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortBigLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortBigListIterators.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntListIterator.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleOpenHashSet.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleBigListIterator.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongSortedMap.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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jar/it/unimi/dsi/fastutil/chars/Char2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ReferenceSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatIterable.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortSortedSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2IntMaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongBigLists.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortLists.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongRBTreeMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharComparator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2BooleanSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongOpenHashBigSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2CharSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ByteMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortAVLTreeMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortMaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2FloatMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleOpenHashMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntLinkedOpenHashSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2DoubleMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ReferenceMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2IntAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2FloatRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2CharSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2DoubleLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2FloatAVLTreeMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongLinkedOpenHashSet.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleHash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByteSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanLists.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ReferenceAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2IntFunctions.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/chars/AbstractChar2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceArrayList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntCollections.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteComparator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ReferenceFunction.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2BooleanFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleIterable.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ShortSortedMaps.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ShortOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ReferenceSortedMap.java
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jar/it/unimi/dsi/fastutil/shorts/Short2ShortSortedMaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ByteOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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jar/it/unimi/dsi/fastutil/chars/AbstractChar2ShortFunction.java
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jar/it/unimi/dsi/fastutil/chars/CharLinkedOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2IntMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractIntCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntIterable.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2LongAVLTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2IntRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLongBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2BooleanFunctions.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharRBTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanBigListIterator.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatAVLTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanMaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2FloatMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntFunctions.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2LongFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongAVLTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteList.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ShortFunction.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2BooleanMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByteIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/floats/Float2BooleanSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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jar/it/unimi/dsi/fastutil/bytes/Byte2LongSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2LongFunctions.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ShortSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2DoubleLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectCollections.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleLinkedOpenHashMap.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2IntMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2CharLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongLinkedOpenHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ByteSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteSortedMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongSet.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatOpenCustomHashSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortAVLTreeMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceOpenCustomHashMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByteStack.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleStack.java

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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanBidirectionalIterator.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleFunction.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortFunctions.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntOpenHashSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleMap.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongCollection.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortBidirectionalIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectMaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteSortedSet.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2ByteMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/io/InspectableFileCachedInputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/io/FastMultiByteArrayInputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/io/MeasurableStream.java
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jar/it/unimi/dsi/fastutil/io/TextIO.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/BinIO.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/MeasurableInputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastBufferedOutputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/TextIO.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BinIO.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/RepositionableStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastBufferedInputStream.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/MeasurableOutputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastByteArrayOutputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastByteArrayInputStream.java
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```

```

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*/

```

```
package PACKAGE;
```

```
import java.util.SortedSet;
import java.util.Collection;
```

```
/** A type-specific {@link SortedSet}; provides some additional methods that use polymorphism to avoid
```

(un)boxing.

```
*  
* <P>Additionally, this interface strengthens { @link #iterator() },  
* { @link #comparator() } (for primitive types), { @link  
SortedSet#subSet(Object, Object) },  
* { @link SortedSet#headSet(Object) } and { @link SortedSet#tailSet(Object) }.  
*  
* @see SortedSet  
*/
```

```
public interface SORTED_SET_KEY_GENERIC extends SET_KEY_GENERIC,  
SortedSet<KEY_GENERIC_CLASS> {
```

```
/** Returns a type-specific { @link it.unimi.dsi.fastutil.BidirectionalIterator } on the elements in  
* this set, starting from a given element of the domain (optional operation).  
*  
* <P>This method returns a type-specific bidirectional iterator with given  
* starting point. The starting point is any element comparable to the  
* elements of this set (even if it does not actually belong to the  
* set). The next element of the returned iterator is the least element of  
* the set that is greater than the starting point (if there are no  
* elements greater than the starting point, { @link  
* it.unimi.dsi.fastutil.BidirectionalIterator#hasNext() hasNext() } will return  
* <code>>false</code>). The previous element of the returned iterator is  
* the  
greatest element of the set that is smaller than or equal to the  
* starting point (if there are no elements smaller than or equal to the  
* starting point, { @link it.unimi.dsi.fastutil.BidirectionalIterator#hasPrevious()  
* hasPrevious() } will return <code>>false</code>).  
*  
* <P>Note that passing the last element of the set as starting point and  
* calling { @link it.unimi.dsi.fastutil.BidirectionalIterator#previous() previous() } you can traverse the  
* entire set in reverse order.  
*  
* @param fromElement an element to start from.  
* @return a bidirectional iterator on the element in this set, starting at the given element.  
* @throws UnsupportedOperationException if this set does not support iterators with a starting point.  
*/
```

```
KEY_BIDI_ITERATOR_KEY_GENERIC iterator( KEY_GENERIC_TYPE fromElement );
```

```
/** Returns a type-specific { @link it.unimi.dsi.fastutil.BidirectionalIterator } iterator on the collection.  
*  
* <P>The iterator returned by the { @link #iterator() } method  
and by this  
* method are identical; however, using this method you can save a type casting.  
*  
*/
```

```

* Note that this specification strengthens the one given in the corresponding type-specific
* { @link Collection }.
*
* @deprecated As of <code>fastutil</code> 5, replaced by { @link #iterator() }.
*/
@Deprecated
KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD();

/** Returns a type-specific { @link it.unimi.dsi.fastutil.BidirectionalIterator } on the elements in
* this set.
*
* <P>This method returns a parameterised bidirectional iterator. The iterator
* can be moreover safely cast to a type-specific iterator.
*
* Note that this specification strengthens the one given in the corresponding type-specific
* { @link Collection }.
*
* @return a bidirectional iterator on the element in this set.
*/
KEY_BIDI_ITERATOR KEY_GENERIC iterator();

/** Returns a view of the portion of this sorted set whose elements range from <code>fromElement</code>,
inclusive, to <code>toElement</code>,
exclusive.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#subSet(Object,Object) }.
*
* @see SortedSet#subSet(Object,Object)
*/
SORTED_SET KEY_GENERIC subSet( KEY_GENERIC_CLASS fromElement, KEY_GENERIC_CLASS
toElement );

/** Returns a view of the portion of this sorted set whose elements are strictly less than <code>toElement</code>.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#headSet(Object) }.
*
* @see SortedSet#headSet(Object)
*/
SORTED_SET KEY_GENERIC headSet( KEY_GENERIC_CLASS toElement );

/** Returns a view of the portion of this sorted set whose elements are greater than or equal to
<code>fromElement</code>.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#tailSet(Object) }.
*
* @see SortedSet#tailSet(Object)
*/
SORTED_SET KEY_GENERIC tailSet( KEY_GENERIC_CLASS fromElement );

```

```

#if #keys(primitive)

/** Returns the comparator
associated with this sorted set, or null if it uses its elements' natural ordering.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#comparator() }.
*
* @see SortedSet#comparator()
*/

KEY_COMPARATOR comparator();

/**
* @see SortedSet#subSet(Object, Object)
*/
SORTED_SET subSet( KEY_TYPE fromElement, KEY_TYPE toElement ) ;

/**
* @see SortedSet#headSet(Object)
*/
SORTED_SET headSet( KEY_TYPE toElement );

/**
* @see SortedSet#tailSet(Object)
*/
SORTED_SET tailSet( KEY_TYPE fromElement );

/**
* @see SortedSet#first()
*/
KEY_TYPE FIRST();

/**
* @see SortedSet#last()
*/
KEY_TYPE LAST();

#endif

}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedSet.drv
No license file was found, but licenses were detected in source scan.

/*

```

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*/
```

```
package PACKAGE;
```

```
import java.util.Iterator;
import java.util.ListIterator;
import java.util.NoSuchElementException;
```

```
/** A class providing static methods and objects that do useful things with type-specific iterators.
 *
 * @see Iterator
 */
```

```
public class ITERATORS {
```

```
    private ITERATORS() {}
```

```
    /** A class returning
     * no elements and a type-specific iterator interface.
     *
     * <P>This class may be useful to implement your own in case you subclass
     * a type-specific iterator.
     */
```

```
    public static class EmptyIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC
    implements java.io.Serializable, Cloneable {
```

```
        private static final long serialVersionUID = -7046029254386353129L;
```

```
        protected EmptyIterator() {}
```

```
        public boolean hasNext() { return false; }
        public boolean hasPrevious() { return false; }
        public KEY_GENERIC_TYPE NEXT_KEY() { throw new NoSuchElementException(); }
```

```

public KEY_GENERIC_TYPE PREV_KEY() { throw new NoSuchElementException(); }
public int nextIndex() { return 0; }
public int previousIndex() { return -1; }
public int skip( int n ) { return 0; };
public int back( int n ) { return 0; };
public Object clone() { return EMPTY_ITERATOR; }
    private Object readResolve() { return EMPTY_ITERATOR; }
}

/** An empty iterator (immutable). It is serializable
and cloneable.
*
* <P>The class of this objects represent an abstract empty iterator
* that can iterate as a type-specific (list) iterator.
*/

SUPPRESS_WARNINGS_KEY_RAWTYPES
public final static EmptyIterator EMPTY_ITERATOR = new EmptyIterator();

/** An iterator returning a single element. */

private static class SingletonIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR
KEY_GENERIC {
private final KEY_GENERIC_TYPE element;
private int curr;

public SingletonIterator( final KEY_GENERIC_TYPE element ) {
this.element = element;
}

public boolean hasNext() { return curr == 0; }
public boolean hasPrevious() { return curr == 1; }

public KEY_GENERIC_TYPE NEXT_KEY() {
if ( ! hasNext() ) throw new NoSuchElementException();
curr = 1;
return element;
}

public KEY_GENERIC_TYPE PREV_KEY() {
if ( ! hasPrevious() ) throw new NoSuchElementException();
curr = 0;
return element;
}

public int nextIndex() {
return curr;
}

```

```

}

public
int previousIndex() {
    return curr - 1;
}
}

/** Returns an iterator that iterates just over the given element.
 *
 * @param element the only element to be returned by a type-specific list iterator.
 * @return an iterator that iterates just over <code>element</code>.
 */
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC singleton( final KEY_GENERIC_TYPE
element ) {
    return new SingletonIterator KEY_GENERIC( element );
}

/** A class to wrap arrays in iterators. */

private static class ArrayIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC
{
    private final KEY_GENERIC_TYPE[] array;
    private final int offset, length;
    private int curr;

    public ArrayIterator( final KEY_GENERIC_TYPE[] array, final int offset, final int length ) {
        this.array = array;
        this.offset = offset;
        this.length = length;
    }

    public boolean hasNext() { return curr < length; }
    public boolean hasPrevious() { return curr > 0; }

    public KEY_GENERIC_TYPE NEXT_KEY()
    {
        if ( ! hasNext() ) throw new NoSuchElementException();
        return array[ offset + curr++ ];
    }

    public KEY_GENERIC_TYPE PREV_KEY() {
        if ( ! hasPrevious() ) throw new NoSuchElementException();
        return array[ offset + --curr ];
    }
}

```

```

public int skip( int n ) {
    if ( n <= length - curr ) {
        curr += n;
        return n;
    }
    n = length - curr;
    curr = length;
    return n;
}

```

```

public int back( int n ) {
    if ( n <= curr ) {
        curr -= n;
        return n;
    }
    n = curr;
    curr = 0;
    return n;
}

```

```

public int nextIndex() {
    return curr;
}

```

```

public int previousIndex() {
    return curr - 1;
}
}

```

```

/** Wraps the given part of an array into a type-specific list iterator.

```

```

*

```

```

* <P>The type-specific list iterator returned by this method will iterate
* <code>length</code> times, returning consecutive elements of the given
* array starting from the one with index <code>offset</code>.

```

```

*

```

```

* @param array an array to wrap into a type-specific list iterator.

```

```

* @param offset the first element of the array to be returned.

```

```

* @param length the number of elements to return.

```

```

* @return an iterator that will return <code>length</code> elements of <code>array</code> starting at position
<code>offset</code>.

```

```

*/

```

```

public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC wrap( final KEY_GENERIC_TYPE[]
array, final int offset, final int length ) {
    ARRAYS.ensureOffsetLength( array, offset, length );
    return new ArrayIterator KEY_GENERIC( array, offset, length );
}

```

```

/** Wraps the given array into a type-specific list iterator.
 *
 * <P>The type-specific list iterator returned by this method will return
 * all elements of the given array.
 *
 * @param array an array to wrap into a type-specific list iterator.
 * @return an iterator that will the elements of <code>array</code>.
 */
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC wrap( final KEY_GENERIC_TYPE[]
array ) {
    return new ArrayIterator KEY_GENERIC( array, 0, array.length
);
}

```

```

/** Unwraps an iterator into an array starting at a given offset for a given number of elements.
 *
 * <P>This method iterates over the given type-specific iterator and stores the elements
 * returned, up to a maximum of <code>length</code>, in the given array starting at <code>offset</code>.
 * The number of actually unwrapped elements is returned (it may be less than <code>max</code> if
 * the iterator emits less than <code>max</code> elements).
 *
 * @param i a type-specific iterator.
 * @param array an array to contain the output of the iterator.
 * @param offset the first element of the array to be returned.
 * @param max the maximum number of elements to unwrap.
 * @return the number of elements unwrapped.
 */
public static KEY_GENERIC int unwrap( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final
KEY_GENERIC_TYPE array[], int offset, final int max ) {
    if ( max < 0 ) throw new IllegalArgumentException( "The maximum number of elements (" + max +
") is negative" );
    if ( offset < 0 || offset + max > array.length ) throw new IllegalArgumentException();
    int j = max;
    while( j-- != 0 && i.hasNext() ) array[ offset++ ] = i.NEXT_KEY();
    return max - j - 1;
}

```

```

/** Unwraps an iterator into an array.
 *
 * <P>This method iterates over the given type-specific iterator and stores the
 * elements returned in the given array. The iteration will stop when the
 * iterator has no more elements or when the end of the array has been reached.
 *
 * @param i a type-specific iterator.
 * @param array an array to contain the output of the iterator.
 * @return the number of elements unwrapped.

```

```

*/
public static KEY_GENERIC int unwrap( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final
KEY_GENERIC_TYPE array[] ) {
    return unwrap( i, array, 0, array.length );
}

/** Unwraps an iterator, returning an array, with a limit on the number of elements.
*
* <P>This method iterates over the given type-specific iterator and returns an array
* containing the elements returned by the iterator. At most <code>max</code> elements
* will be returned.
*
* @param i a type-specific iterator.
* @param max the maximum number of elements to be unwrapped.
* @return an array containing the elements returned by the iterator (at most <code>max</code>).
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC KEY_GENERIC_TYPE[] unwrap( final STD_KEY_ITERATOR
KEY_EXTENDS_GENERIC i, int max ) {
    if ( max < 0 ) throw new IllegalArgumentException( "The maximum number of elements (" + max + ") is negative"
);
    KEY_GENERIC_TYPE array[] = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ 16 ];
    int j = 0;

    while( max-- != 0 && i.hasNext() ) {
        if ( j == array.length ) array = ARRAYS.grow( array, j + 1 );
        array[ j++ ] = i.NEXT_KEY();
    }

    return ARRAYS.trim( array, j );
}

/** Unwraps an iterator, returning an array.
*
* <P>This method iterates over the given type-specific iterator and returns an array
* containing
the elements returned by the iterator.
*
* @param i a type-specific iterator.
* @return an array containing the elements returned by the iterator.
*/

public static KEY_GENERIC KEY_GENERIC_TYPE[] unwrap( final STD_KEY_ITERATOR
KEY_EXTENDS_GENERIC i ) {
    return unwrap( i, Integer.MAX_VALUE );
}

```

```

/** Unwraps an iterator into a type-specific collection, with a limit on the number of elements.
 *
 * <P>This method iterates over the given type-specific iterator and stores the elements
 * returned, up to a maximum of <code>max</code>, in the given type-specific collection.
 * The number of actually unwrapped elements is returned (it may be less than <code>max</code> if
 * the iterator emits less than <code>max</code> elements).
 *
 * @param i a type-specific iterator.
 * @param c a type-specific collection array to contain the output of the iterator.
 * @param max the maximum number of elements to unwrap.
 * @return the number of elements unwrapped. Note that
 * this
is the number of elements returned by the iterator, which is not necessarily the number
 * of elements that have been added to the collection (because of duplicates).
 */
public static KEY_GENERIC int unwrap( final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC c, final int max ) {
    if ( max < 0 ) throw new IllegalArgumentException( "The maximum number of elements (" + max + ") is negative"
);
    int j = max;
    while( j-- != 0 && i.hasNext() ) c.add( i.NEXT_KEY() );
    return max - j - 1;
}

/** Unwraps an iterator into a type-specific collection.
 *
 * <P>This method iterates over the given type-specific iterator and stores the
 * elements returned in the given type-specific collection. The returned count on the number
 * unwrapped elements is a long, so that it will work also with very large collections.
 *
 * @param i a type-specific iterator.
 * @param c a type-specific collection to contain the output of the iterator.
 * @return the number of elements
unwrapped. Note that
 * this is the number of elements returned by the iterator, which is not necessarily the number
 * of elements that have been added to the collection (because of duplicates).
 */
public static KEY_GENERIC long unwrap( final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC c ) {
    long n = 0;
    while( i.hasNext() ) {
        c.add( i.NEXT_KEY() );
        n++;
    }
    return n;
}

```

```

/** Pours an iterator into a type-specific collection, with a limit on the number of elements.
 *
 * <P>This method iterates over the given type-specific iterator and adds
 * the returned elements to the given collection (up to <code>max</code>).
 *
 * @param i a type-specific iterator.
 * @param s a type-specific collection.
 * @param max the maximum number of elements to be poured.
 * @return the number of elements poured. Note that
 * this is the number of elements returned by the iterator, which is not necessarily the number
 * of elements that have been added
 * to the collection (because of duplicates).
 */

public static KEY_GENERIC int pour( final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC s, final int max ) {
    if ( max < 0 ) throw new IllegalArgumentException( "The maximum number of elements (" + max + ") is negative"
);
    int j = max;
    while( j-- != 0 && i.hasNext() ) s.add( i.NEXT_KEY() );
    return max - j - 1;
}

/** Pours an iterator into a type-specific collection.
 *
 * <P>This method iterates over the given type-specific iterator and adds
 * the returned elements to the given collection.
 *
 * @param i a type-specific iterator.
 * @param s a type-specific collection.
 * @return the number of elements poured. Note that
 * this is the number of elements returned by the iterator, which is not necessarily the number
 * of elements that have been added to the collection (because of duplicates).
 */

public static KEY_GENERIC int pour( final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC
s ) {
    return pour( i, s, Integer.MAX_VALUE );
}

/** Pours an iterator, returning a type-specific list, with a limit on the number of elements.
 *
 * <P>This method iterates over the given type-specific iterator and returns
 * a type-specific list containing the returned elements (up to <code>max</code>). Iteration
 * on the returned list is guaranteed to produce the elements in the same order

```

```

* in which they appeared in the iterator.
*
*
* @param i a type-specific iterator.
* @param max the maximum number of elements to be poured.
* @return a type-specific list containing the returned elements, up to <code>max</code>.
*/

public static KEY_GENERIC LIST KEY_GENERIC pour( final STD_KEY_ITERATOR KEY_GENERIC i, int
max ) {
    final ARRAY_LIST KEY_GENERIC l = new ARRAY_LIST KEY_GENERIC();
    pour( i, l, max );
    l.trim();
    return l;
}

/** Pours an iterator, returning a type-specific list.
*
* <P>This method iterates over the given type-specific iterator
and returns
* a list containing the returned elements. Iteration
* on the returned list is guaranteed to produce the elements in the same order
* in which they appeared in the iterator.
*
* @param i a type-specific iterator.
* @return a type-specific list containing the returned elements.
*/

public static KEY_GENERIC LIST KEY_GENERIC pour( final STD_KEY_ITERATOR KEY_GENERIC i ) {
    return pour( i, Integer.MAX_VALUE );
}

private static class IteratorWrapper KEY_GENERIC extends KEY_ABSTRACT_ITERATOR KEY_GENERIC {
    final Iterator<KEY_GENERIC_CLASS> i;

    public IteratorWrapper( final Iterator<KEY_GENERIC_CLASS> i ) {
        this.i = i;
    }

    public boolean hasNext() { return i.hasNext(); }
    public void remove() { i.remove(); }

    public KEY_GENERIC_TYPE NEXT_KEY() { return KEY_CLASS2TYPE( i.next() ); }
}

/** Wraps a standard iterator into a type-specific iterator.
*
* <P>This method wraps a standard iterator into a type-specific one which will handle the

```

```

* type conversions for you. Of course, any attempt to wrap an iterator returning the
* instances of the wrong class will generate a { @link ClassCastException}. The
* returned iterator is backed by <code>i</code>: changes to one of the iterators
* will affect the other, too.
*
* <P>If <code>i</code> is already type-specific, it will returned and no new object
* will be generated.
*
* @param i an iterator.
* @return a type-specific iterator backed by <code>i</code>.
*/
#if #keys(primitive)
@SuppressWarnings({"unchecked","rawtypes"})
#endif
public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC AS_KEY_ITERATOR( final Iterator
KEY_GENERIC i ) {
    if ( i instanceof KEY_ITERATOR ) return (KEY_ITERATOR KEY_GENERIC)i;
    return new IteratorWrapper KEY_GENERIC( i );
}

private static class ListIteratorWrapper KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR
KEY_GENERIC {
    final ListIterator<KEY_GENERIC_CLASS> i;

    public ListIteratorWrapper( final ListIterator<KEY_GENERIC_CLASS>
i ) {
        this.i = i;
    }

    public boolean hasNext() { return i.hasNext(); }
    public boolean hasPrevious() { return i.hasPrevious(); }
    public int nextIndex() { return i.nextIndex(); }
    public int previousIndex() { return i.previousIndex(); }
    public void set( KEY_GENERIC_TYPE k ) { i.set( KEY2OBJ( k ) ); }
    public void add( KEY_GENERIC_TYPE k ) { i.add( KEY2OBJ( k ) ); }
    public void remove() { i.remove(); }

    public KEY_GENERIC_TYPE NEXT_KEY() { return KEY_CLASS2TYPE( i.next() ); }
    public KEY_GENERIC_TYPE PREV_KEY() { return KEY_CLASS2TYPE( i.previous() ); }
}

/** Wraps a standard list iterator into a type-specific list iterator.
*
* <P>This method wraps a standard list iterator into a type-specific one
* which will handle the type conversions for you. Of course, any attempt
* to wrap an iterator returning the instances of the wrong class will

```

```

* generate a {@link ClassCastException}. The
* returned iterator is backed by <code>i</code>: changes to one of
the iterators
* will affect the other, too.
*
* <P>If <code>i</code> is already type-specific, it will returned and no new object
* will be generated.
*
* @param i a list iterator.
* @return a type-specific list iterator backed by <code>i</code>.
*/
#if #keys(primitive)
@SuppressWarnings({"unchecked","rawtypes"})
#endif
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC AS_KEY_ITERATOR( final ListIterator
KEY_GENERIC i ) {
    if ( i instanceof KEY_LIST_ITERATOR ) return (KEY_LIST_ITERATOR KEY_GENERIC)i;
    return new ListIteratorWrapper KEY_GENERIC( i );
}

#if #keyclass(Integer) || #keyclass(Byte) || #keyclass(Short) || #keyclass(Character) || #keyclass(Long)

#if #keyclass(Long)
private static class IntervallIterator extends KEY_ABSTRACT_BIDI_ITERATOR {
#else
private static class IntervallIterator extends KEY_ABSTRACT_LIST_ITERATOR {
#endif
private final KEY_TYPE from, to;
KEY_TYPE curr;

public IntervallIterator( final KEY_TYPE from, final KEY_TYPE to )
{
    this.from = this.curr = from;
    this.to = to;
}

public boolean hasNext() { return curr < to; }
public boolean hasPrevious() { return curr > from; }

public KEY_TYPE NEXT_KEY() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    return curr++;
}
public KEY_TYPE PREV_KEY() {
    if ( ! hasPrevious() ) throw new NoSuchElementException();
    return --curr;
}
}

```

```

#if ! #keyclass(Long)
    public int nextIndex() { return curr - from; }
    public int previousIndex() { return curr - from - 1; }
#endif

    public int skip( int n ) {
        if ( curr + n <= to ) {
            curr += n;
            return n;
        }
    }
#if ! #keyclass(Long)
    n = to - curr;
#else
    n = (int)( to - curr );
#endif
    curr = to;
    return n;
}

    public int back( int n ) {
        if ( curr - n >= from ) {
            curr -= n;
            return n;
        }
    }
#if ! #keyclass(Long)
    n = curr - from ;
#else
    n = (int)( curr - from );
#endif
    curr = from;
    return n;
}
}

#if #keyclass(Long)
/** Creates a type-specific bidirectional
iterator over an interval.
*
* <P>The type-specific bidirectional iterator returned by this method will return the
* elements <code>from</code>, <code>from+1</code>,&hellip;, <code>to-1</code>.
*
* <P>Note that all other type-specific interval iterator are <em>list</em>
* iterators. Of course, this is not possible with longs as the index
* returned by { @link java.util.ListIterator#nextIndex() nextIndex()}/{ @link
* java.util.ListIterator#previousIndex() previousIndex() } would exceed an integer.
*
* @param from the starting element (inclusive).

```

```

* @param to the ending element (exclusive).
* @return a type-specific bidirectional iterator enumerating the elements from <code>from</code> to
<code>to</code>.
*/
public static KEY_BIDI_ITERATOR fromTo( final KEY_TYPE from, final KEY_TYPE to ) {
    return new IntervalIterator( from, to );
}
#else

/** Creates a type-specific list iterator over an interval.
*
* <P>The type-specific list iterator returned
by this method will return the
* elements <code>from</code>, <code>from+1</code>,&hellip;, <code>to-1</code>.
*
* @param from the starting element (inclusive).
* @param to the ending element (exclusive).
* @return a type-specific list iterator enumerating the elements from <code>from</code> to <code>to</code>.
*/
public static KEY_LIST_ITERATOR fromTo( final KEY_TYPE from, final KEY_TYPE to ) {
    return new IntervalIterator( from, to );
}

#endif

#endif

private static class IteratorConcatenator KEY_GENERIC extends KEY_ABSTRACT_ITERATOR
KEY_GENERIC {
    final KEY_ITERATOR KEY_EXTENDS_GENERIC a[];
    int offset, length, lastOffset = -1;

    public IteratorConcatenator( final KEY_ITERATOR KEY_EXTENDS_GENERIC a[], int offset, int length ) {
        this.a = a;
        this.offset = offset;
        this.length = length;
        advance();
    }

    private void advance() {
        while( length != 0 ) {
            if ( a[ offset ].hasNext() ) break;
            length--;
            offset++;
        }

        return;
    }
}

```

```

public boolean
hasNext() {
    return length > 0;
}

public KEY_GENERIC_TYPE NEXT_KEY() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    KEY_GENERIC_TYPE next = a[ lastOffset = offset ].NEXT_KEY();
    advance();
    return next;
}

public void remove() {
    if ( lastOffset == -1 ) throw new IllegalStateException();
    a[ lastOffset ].remove();
}

public int skip( int n ) {
    lastOffset = -1;

    int skipped = 0;

    while( skipped < n && length != 0 ) {
        skipped += a[ offset ].skip( n - skipped );
        if ( a[ offset ].hasNext() ) break;
        length--;
        offset++;
    }

    return skipped;
}

}

/** Concatenates all iterators contained in an array.
 *
 * <P>This method returns an iterator that will enumerate in order the elements returned
 * by all iterators contained in the given array.
 *
 * @param a an array of iterators.
 * @return an iterator obtained by concatenation.
 */

public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC concat( final KEY_ITERATOR
KEY_EXTENDS_GENERIC a[] ) {
    return concat( a, 0, a.length );
}

```

```

}

/** Concatenates a sequence of iterators contained in an array.
 *
 * <P>This method returns an iterator that will enumerate in order the elements returned
 * by <code>a[ offset ]</code>, then those returned
 * by <code>a[ offset + 1 ]</code>, and so on up to
 * <code>a[ offset + length - 1 ]</code>.
 *
 * @param a an array of iterators.
 * @param offset the index of the first iterator to concatenate.
 * @param length the number of iterators to concatenate.
 * @return an iterator obtained by concatenation of <code>length</code> elements of <code>a</code> starting at
<code>offset</code>.
 */

public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC concat( final KEY_ITERATOR
KEY_EXTENDS_GENERIC a[], final int offset, final int length ) {
    return new IteratorConcatenator KEY_GENERIC( a, offset, length );
}

/** An unmodifiable wrapper class for iterators. */

public static class UnmodifiableIterator
KEY_GENERIC extends KEY_ABSTRACT_ITERATOR KEY_GENERIC {
    final protected KEY_ITERATOR KEY_GENERIC i;

    public UnmodifiableIterator( final KEY_ITERATOR KEY_GENERIC i ) {
        this.i = i;
    }

    public boolean hasNext() { return i.hasNext(); }

    public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
#if #keys(primitive)
    /** { @inheritDoc }
     * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    @Override
    public KEY_GENERIC_CLASS next() { return i.next(); }
#endif
}

/** Returns an unmodifiable iterator backed by the specified iterator.

```

```

*
* @param i the iterator to be wrapped in an unmodifiable iterator.
* @return an unmodifiable view of the specified iterator.
*/
public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC unmodifiable( final KEY_ITERATOR
KEY_GENERIC i ) { return new UnmodifiableIterator KEY_GENERIC( i ); }

/** An unmodifiable wrapper class for bidirectional iterators. */

public static class UnmodifiableBidirectionalIterator
KEY_GENERIC extends KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC {
    final protected KEY_BIDI_ITERATOR KEY_GENERIC i;

    public UnmodifiableBidirectionalIterator( final KEY_BIDI_ITERATOR KEY_GENERIC i ) {
        this.i = i;
    }

    public boolean hasNext() { return i.hasNext(); }
    public boolean hasPrevious() { return i.hasPrevious(); }
    public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
    public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
#ifdef #keys(primitive)
    /** {@inheritDoc}
     * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    @Override
    public KEY_GENERIC_CLASS next() { return i.next(); }
    /** {@inheritDoc}
     * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    @Override
    public KEY_GENERIC_CLASS previous() { return i.previous(); }
#endif
}

/** Returns an unmodifiable bidirectional iterator backed by the specified bidirectional iterator.
*
* @param i the bidirectional
iterator to be wrapped in an unmodifiable bidirectional iterator.
* @return an unmodifiable view of the specified bidirectional iterator.
*/
public static KEY_GENERIC KEY_BIDI_ITERATOR KEY_GENERIC unmodifiable( final
KEY_BIDI_ITERATOR KEY_GENERIC i ) { return new UnmodifiableBidirectionalIterator KEY_GENERIC( i );
}

```

```

/** An unmodifiable wrapper class for list iterators. */

public static class UnmodifiableListIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR
KEY_GENERIC {
    final protected KEY_LIST_ITERATOR KEY_GENERIC i;

    public UnmodifiableListIterator( final KEY_LIST_ITERATOR KEY_GENERIC i ) {
        this.i = i;
    }

    public boolean hasNext() { return i.hasNext(); }
    public boolean hasPrevious() { return i.hasPrevious(); }
    public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
    public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
    public int nextIndex() { return i.nextIndex(); }
    public int previousIndex() { return i.previousIndex(); }
#if #keys(primitive)
/**
{ @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS next() { return i.next(); }
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS previous() { return i.previous(); }
#endif
}

/** Returns an unmodifiable list iterator backed by the specified list iterator.
*
* @param i the list iterator to be wrapped in an unmodifiable list iterator.
* @return an unmodifiable view of the specified list iterator.
*/
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC unmodifiable( final
KEY_LIST_ITERATOR KEY_GENERIC i ) { return new UnmodifiableListIterator KEY_GENERIC( i ); }

#if #keyclass(Short) || #keyclass(Integer) || #keyclass(Long) || #keyclass(Float) || #keyclass(Double)

/** A wrapper promoting the results of a ByteIterator. */

protected static class ByteIteratorWrapper
implements KEY_ITERATOR {
    final it.unimi.dsi.fastutil.bytes.ByteIterator iterator;

```

```

public ByteIteratorWrapper( final it.unimi.dsi.fastutil.bytes.ByteIterator iterator ) {
    this.iterator = iterator;
}

public boolean hasNext() { return iterator.hasNext(); }
public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf( iterator.nextByte() ); }
public KEY_TYPE NEXT_KEY() { return iterator.nextByte(); }
public void remove() { iterator.remove(); }
public int skip( final int n ) { return iterator.skip( n ); }
}

/** Returns an iterator backed by the specified byte iterator.
 * @return an iterator backed by the specified byte iterator.
 */
public static KEY_ITERATOR wrap( final it.unimi.dsi.fastutil.bytes.ByteIterator iterator ) {
    return new ByteIteratorWrapper( iterator );
}
#endif

#if #keyclass(Integer) || #keyclass(Long) || #keyclass(Float) || #keyclass(Double)

/** A wrapper promoting the results of a ShortIterator. */

protected static class ShortIteratorWrapper
implements KEY_ITERATOR {
    final it.unimi.dsi.fastutil.shorts.ShortIterator iterator;

    public ShortIteratorWrapper( final it.unimi.dsi.fastutil.shorts.ShortIterator iterator ) {
        this.iterator = iterator;
    }

    public boolean hasNext() { return iterator.hasNext(); }
    public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf( iterator.nextShort() ); }
    public KEY_TYPE NEXT_KEY() { return iterator.nextShort(); }
    public void remove() { iterator.remove(); }
    public int skip( final int n ) { return iterator.skip( n ); }
}

/** Returns an iterator backed by the specified short iterator.
 * @return an iterator backed by the specified short iterator.
 */
public static KEY_ITERATOR wrap( final it.unimi.dsi.fastutil.shorts.ShortIterator iterator ) {
    return new ShortIteratorWrapper( iterator );
}
#endif

#if #keyclass(Long) || #keyclass(Double)

```

```

/** A wrapper promoting the results of an IntIterator. */

protected static class IntIteratorWrapper
implements KEY_ITERATOR {
    final it.unimi.dsi.fastutil.ints.IntIterator iterator;

    public IntIteratorWrapper( final it.unimi.dsi.fastutil.ints.IntIterator iterator ) {
        this.iterator = iterator;
    }

    public boolean hasNext() { return iterator.hasNext(); }
    public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf( iterator.nextInt() ); }
    public KEY_TYPE NEXT_KEY() { return iterator.nextInt(); }
    public void remove() { iterator.remove(); }
    public int skip( final int n ) { return iterator.skip( n ); }
}

/** Returns an iterator backed by the specified integer iterator.
 * @return an iterator backed by the specified integer iterator.
 */

public static KEY_ITERATOR wrap( final it.unimi.dsi.fastutil.ints.IntIterator iterator ) {
    return new IntIteratorWrapper( iterator );
}

#endif

#if #keyclass(Double)

/** A wrapper promoting the results of a FloatIterator. */

protected static class FloatIteratorWrapper implements KEY_ITERATOR {
    final it.unimi.dsi.fastutil.floats.FloatIterator
iterator;

    public FloatIteratorWrapper( final it.unimi.dsi.fastutil.floats.FloatIterator iterator ) {
        this.iterator = iterator;
    }

    public boolean hasNext() { return iterator.hasNext(); }
    public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf( iterator.nextFloat() ); }
    public KEY_TYPE NEXT_KEY() { return iterator.nextFloat(); }
    public void remove() { iterator.remove(); }
    public int skip( final int n ) { return iterator.skip( n ); }
}

/** Returns an iterator backed by the specified float iterator.

```

```

* @return an iterator backed by the specified float iterator.
*/
public static KEY_ITERATOR wrap( final it.unimi.dsi.fastutil.floats.FloatIterator iterator ) {
    return new FloatIteratorWrapper( iterator );
}
#endif
}

```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Iterators.drv
```

No license file was found, but licenses were detected in source scan.

```

/*
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* limitations under the License.
*/

```

```
package PACKAGE;
```

```

import it.unimi.dsi.fastutil.objects.AbstractObjectListIterator;
import it.unimi.dsi.fastutil.objects.AbstractObjectList;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.longs.LongArrays;

```

```

import java.io.Serializable;
import java.util.Iterator;
import java.util.Collection;
import
    java.util.NoSuchElementException;
import java.util.RandomAccess;

```

```

/** Compact storage of lists of arrays using front coding.
*
* <P>This class stores immutably a list of arrays in a single large array
* using front coding (of course, the compression will be reasonable only if
* the list is sorted lexicographically&mdash;see below). It implements an

```

* immutable type-specific list that returns the `<var>i</var>`-th array when calling `{ @link #get(int) get(<var>i</var>) }`. The returned array may be freely modified.

*
 * `<P>`Front coding is based on the idea that if the `<var>i</var>`-th and the `(<var>i</var>+1)`-th array have a common prefix, we might store the length of the common prefix, and then the rest of the second array.

*
 * `<P>`This approach, of course, requires that once in a while an array is stored entirely. The `ratio` of a front-coded list defines how often this happens (once every `{ @link #ratio() }` arrays). A higher ratio means more compression, but means also a longer access time, as more arrays have to be probed to build the result. Note that we must build an array every time `{ @link #get(int) }` is called, but this class provides also methods that extract one of the stored arrays in a given array, reducing garbage collection. See the documentation of the family of `<code>get()</code>` methods.

*
 * `<P>`By setting the ratio to 1 we actually disable front coding: however, we still have a data structure storing large list of arrays with a reduced overhead (just one integer per array, plus the space required for lengths).

*
 * `<P>`Note that the typical usage of front-coded lists is under the form of serialized objects; usually, the data that has to be compacted is processed offline, and the resulting structure is stored permanently. Since the pointer array is not stored, the serialized format is very small.

*
 * `<H2>`Implementation Details`</H2>`

*
 * `<P>`All arrays are stored in a `{ @link plain it.unimi.dsi.fastutil.BigArrays big array }`. A separate array of pointers indexes arrays whose position is a multiple of the ratio: thus, a higher ratio means also less pointers.

*
 * `<P>`More in detail, an array whose position is a multiple of the ratio is stored as the array length, followed by the elements of the array. The array length is coded by a simple variable-length list of `<var>k</var>-1` bit blocks, where `<var>k</var>` is the number of bits of the underlying primitive type. All other arrays are stored as follows: let `<code>common</code>` the length of the maximum common prefix between the array and its predecessor. Then we store the array length decremented by `<code>common</code>`, followed by `<code>common</code>`, followed by the array elements whose index is greater than or equal to `<code>common</code>`. For instance, if we store `<code>foo</code>`, `<code>foobar</code>`, `<code>football</code>` and `<code>fool</code>` in a front-coded character-array list with ratio 3, the character array will contain

```

*
* <pre>
* <b>3</b> f o o <b>3</b> <b>3</b> b a r <b>5</b> <b>3</b> t b a l l <b>4</b> f o o l
* </pre>
*/

public class ARRAY_FRONT_CODED_LIST extends AbstractObjectList<KEY_TYPE[]> implements
Serializable, Cloneable, RandomAccess {

    private static final long serialVersionUID = 1L;

    /** The number of arrays in the list. */
    protected final int n;
    /** The ratio of this front-coded list. */
    protected final int ratio;
    /** The big array containing the compressed arrays. */
    protected final KEY_TYPE[][] array;
    /** The pointers to entire arrays in the list. */
    protected transient long[] p;

    /** Creates a new front-coded list containing the arrays returned by the given iterator.
    *
    * @param arrays an iterator returning arrays.
    * @param ratio the desired ratio.
    */

    public ARRAY_FRONT_CODED_LIST( final Iterator<KEY_TYPE[]> arrays, final int ratio ) {

        if ( ratio < 1 ) throw new IllegalArgumentException(
            "Illegal ratio (" + ratio + ")" );

        KEY_TYPE[][] array = BIG_ARRAYS.EMPTY_BIG_ARRAY;
        long[] p = LongArrays.EMPTY_ARRAY;

        KEY_TYPE[][] a = new KEY_TYPE[ 2 ][];
        long curSize = 0;
        int n = 0, b = 0, common, length, minLength;

        while( arrays.hasNext() ) {
            a[ b ] = arrays.next();
            length = a[ b ].length;

            if ( n % ratio == 0 ) {
                p = LongArrays.grow( p, n / ratio + 1 );
                p[ n / ratio ] = curSize;

                array = BIG_ARRAYS.grow( array, curSize + count( length ) + length, curSize );
                curSize += writeInt( array, length, curSize );
            }
        }
    }
}

```

```

    BIG_ARRAYS.copyToBig( a[ b ], 0, array, curSize, length );
    curSize += length;
}
else {
    minLength = a[ 1 - b ].length;
    if ( length < minLength ) minLength = length;
    for( common = 0; common < minLength; common++) if ( a[ 0 ][ common ] != a[ 1 ][ common ] ) break;
    length -= common;

    array = BIG_ARRAYS.grow( array, curSize + count( length ) + count( common ) + length, curSize );
    curSize += writeInt(
array, length, curSize );
    curSize += writeInt( array, common, curSize );
    BIG_ARRAYS.copyToBig( a[ b ], common, array, curSize, length );
    curSize += length;
}

    b = 1 - b;
    n++;
}

this.n = n;
this.ratio = ratio;
this.array = BIG_ARRAYS.trim( array, curSize );
this.p = LongArrays.trim( p, ( n + ratio - 1 ) / ratio );

}

/** Creates a new front-coded list containing the arrays in the given collection.
 *
 * @param c a collection containing arrays.
 * @param ratio the desired ratio.
 */

public ARRAY_FRONT_CODED_LIST( final Collection<KEY_TYPE[]> c, final int ratio ) {
    this( c.iterator(), ratio );
}

/** The following (rather messy) methods implements the encoding of arbitrary integers inside a big array.
 * Unfortunately, we have to specify different codes for almost every type. */

/** Reads a coded length.
 * @param a the data big array.
 * @param pos the starting position.
 * @return the length coded at <code>pos</code>.
 */

```

```

private
static int readInt( final KEY_TYPE a[], long pos ) {
#if #keyclass(Integer)
    return IntBigArrays.get( a, pos );
#elif #keyclass(Long)
    return (int)LongBigArrays.get( a, pos );
#elif #keyclass(Character)
    final char c0 = CharBigArrays.get( a, pos );
    return c0 < 0x8000 ? c0 : ( c0 & 0x7FFF ) << 16 | CharBigArrays.get( a, pos + 1 );
#elif #keyclass(Short)
    final short s0 = ShortBigArrays.get( a, pos );
    return s0 >= 0 ? s0 : s0 << 16 | ( ShortBigArrays.get( a, pos + 1 ) & 0xFFFF );
#else
    final byte b0 = ByteBigArrays.get( a, pos );
    if ( b0 >= 0 ) return b0;
    final byte b1 = ByteBigArrays.get( a, pos + 1 );
    if ( b1 >= 0 ) return ( - b0 - 1 ) << 7 | b1;
    final byte b2 = ByteBigArrays.get( a, pos + 2 );
    if ( b2 >= 0 ) return ( - b0 - 1 ) << 14 | ( - b1 - 1 ) << 7 | b2;
    final byte b3 = ByteBigArrays.get( a, pos + 3 );
    if ( b3 >= 0 ) return ( - b0 - 1 ) << 21 | ( - b1 - 1 ) << 14 | ( - b2 - 1 ) << 7 | b3;
    return ( - b0 - 1 ) << 28 | ( - b1 - 1 ) << 21 | ( - b2 - 1 )
    << 14 | ( - b3 - 1 ) << 7 | ByteBigArrays.get( a, pos + 4 );
#endif
}

```

/** Computes the number of elements coding a given length.

* @param length the length to be coded.

* @return the number of elements coding <code>length</code>.

*/

```

private static int count( final int length ) {
#if #keyclass(Integer) || #keyclass(Long)
    return 1;
#elif #keyclass(Character) || #keyclass(Short)
    return length < ( 1 << 15 ) ? 1 : 2;
#else
    if ( length < ( 1 << 7 ) ) return 1;
    if ( length < ( 1 << 14 ) ) return 2;
    if ( length < ( 1 << 21 ) ) return 3;
    if ( length < ( 1 << 28 ) ) return 4;
    return 5;
#endif
}

```

/** Writes a length.

* @param a the data array.

* @param length the length to be written.

* @param pos the starting position.

```

* @return the number of elements coding <code>length</code>.
*/
private static int writeInt( final KEY_TYPE a[], int length, long pos ) {
#if #keyclass(Long)
    LongBigArrays.set( a, pos, length );
    return 1;
#elif #keyclass(Integer)
    IntBigArrays.set(
a, pos, length );
    return 1;
#elif #keyclass(Character)
    if ( length < ( 1 << 15 ) ) {
        CharBigArrays.set( a, pos, (char)length );
        return 1;
    }
    CharBigArrays.set( a, pos++, (char)( length >>> 16 | 0x8000 ) );
    CharBigArrays.set( a, pos, (char)( length & 0xFFFF ) );
    return 2;
#elif #keyclass(Short)
    if ( length < ( 1 << 15 ) ) {
        ShortBigArrays.set( a, pos, (short)length );
        return 1;
    }
    ShortBigArrays.set( a, pos++, (short)( - ( length >>> 16 ) - 1 ) );
    ShortBigArrays.set( a, pos, (short)( length & 0xFFFF ) );
    return 2;
#else
    final int count = count( length );
    ByteBigArrays.set( a, pos + count - 1, (byte)( length & 0x7F ) );

    if ( count != 1 ) {
        int i = count - 1;
        while( i-- != 0 ) {
            length >>>= 7;
            ByteBigArrays.set( a, pos + i, (byte)( - ( length & 0x7F ) - 1 ) );
        }
    }

    return count;
#endif
}

/** Returns the ratio of this list.
*
* @return the ratio of this list.
*/

```

```

public int ratio() {
    return ratio;
}

/**
Computes the length of the array at the given index.
*
* <P>This private version of { @link #arrayLength(int) } does not check its argument.
*
* @param index an index.
* @return the length of the <code>index</code>-th array.
*/
private int length( final int index ) {
    final KEY_TYPE[][] array = this.array;
    final int delta = index % ratio; // The index into the p array, and the delta inside the block.

    long pos = p[ index / ratio ]; // The position into the array of the first entire word before the index-th.
    int length = readInt( array, pos );

    if ( delta == 0 ) return length;

    // First of all, we recover the array length and the maximum amount of copied elements.
    int common;
    pos += count( length ) + length;
    length = readInt( array, pos );
    common = readInt( array, pos + count( length ) );

    for( int i = 0; i < delta - 1; i++ ) {
        pos += count( length ) + count( common ) + length;
        length = readInt( array, pos );
        common = readInt( array, pos +
count( length ) );
    }

    return length + common;
}

/** Computes the length of the array at the given index.
*
* @param index an index.
* @return the length of the <code>index</code>-th array.
*/
public int arrayLength( final int index ) {
    ensureRestrictedIndex( index );
    return length( index );
}

```

```

}

/** Extracts the array at the given index.
 *
 * @param index an index.
 * @param a the array that will store the result (we assume that it can hold the result).
 * @param offset an offset into <code>a</code> where elements will be store.
 * @param length a maximum number of elements to store in <code>a</code>.
 * @return the length of the extracted array.
 */
private int extract( final int index, final KEY_TYPE a[], final int offset, final int length ) {
    final int delta = index % ratio; // The delta inside the block.
    final long startPos = p[ index / ratio ]; // The position into the array of the first entire word before the index-th.
    long pos, prevArrayPos;
    int
    arrayLength = readInt( array, pos = startPos ), currLen = 0, actualCommon;

    if ( delta == 0 ) {
        pos = p[ index / ratio ] + count( arrayLength );
        BIG_ARRAYS.copyFromBig( array, pos, a, offset, Math.min( length, arrayLength ) );
        return arrayLength;
    }

    int common = 0;

    for( int i = 0; i < delta; i++ ) {
        prevArrayPos = pos + count( arrayLength ) + ( i != 0 ? count( common ) : 0 );
        pos = prevArrayPos + arrayLength;

        arrayLength = readInt( array, pos );
        common = readInt( array, pos + count( arrayLength ) );

        actualCommon = Math.min( common, length );
        if ( actualCommon <= currLen ) currLen = actualCommon;
        else {
            BIG_ARRAYS.copyFromBig( array, prevArrayPos, a, currLen + offset, actualCommon - currLen );
            currLen = actualCommon;
        }
    }

    if ( currLen < length ) BIG_ARRAYS.copyFromBig( array, pos + count( arrayLength ) + count( common ), a,
    currLen + offset, Math.min( arrayLength, length - currLen ) );

    return arrayLength + common;
}

public

```

```

KEY_TYPE[] get( final int index ) {
    return getArray( index );
}

/**
 * @see #get(int)
 */

public KEY_TYPE[] getArray( final int index ) {
    ensureRestrictedIndex( index );
    final int length = length( index );
    final KEY_TYPE a[] = new KEY_TYPE[ length ];
    extract( index, a, 0, length );
    return a;
}

/** Stores in the given array elements from an array stored in this front-coded list.
 *
 * @param index an index.
 * @param a the array that will store the result.
 * @param offset an offset into <code>a</code> where elements will be store.
 * @param length a maximum number of elements to store in <code>a</code>.
 * @return if <code>a</code> can hold the extracted elements, the number of extracted elements;
 * otherwise, the number of remaining elements with the sign changed.
 */
public int get( final int index, final KEY_TYPE[] a, final int offset, final int length ) {
    ensureRestrictedIndex( index );
    ARRAYS.ensureOffsetLength( a, offset, length );

    final
    int arrayLength = extract( index, a, offset, length );
    if ( length >= arrayLength ) return arrayLength;
    return length - arrayLength;
}

/** Stores in the given array an array stored in this front-coded list.
 *
 * @param index an index.
 * @param a the array that will store the content of the result (we assume that it can hold the result).
 * @return if <code>a</code> can hold the extracted elements, the number of extracted elements;
 * otherwise, the number of remaining elements with the sign changed.
 */
public int get( final int index, final KEY_TYPE[] a ) {
    return get( index, a, 0, a.length );
}

public int size() {
    return n;
}

```

```

}

public ObjectListIterator<KEY_TYPE[]> listIterator( final int start ) {
    ensureIndex( start );

    return new AbstractObjectListIterator<KEY_TYPE[]>( ) {
        KEY_TYPE s[] = ARRAYS.EMPTY_ARRAY;
        int i = 0;
        long pos = 0;
        boolean inSync; // Whether the current value in a is the string just before the next to be produced.

        {
            if
( start != 0 ) {
                if ( start == n ) i = start; // If we start at the end, we do nothing.
                else {
                    pos = p[ start / ratio ];
                    int j = start % ratio;
                    i = start - j;
                    while( j-- != 0 ) next();
                }
            }
        }

        public boolean hasNext() {
            return i < n;
        }

        public boolean hasPrevious() {
            return i > 0;
        }

        public int previousIndex() {
            return i - 1;
        }

        public int nextIndex() {
            return i;
        }

        public KEY_TYPE[] next() {
            int length, common;

            if ( ! hasNext() ) throw new NoSuchElementException();

            if ( i % ratio == 0 ) {
                pos = p[ i / ratio ];
                length = readInt( array, pos );
            }
        }
    };
}

```

```

s = ARRAYS.ensureCapacity( s, length, 0 );
BIG_ARRAYS.copyFromBig( array, pos + count( length ), s, 0, length );
pos += length + count( length );
inSync = true;
}
else {
if ( inSync ) {
length = readInt( array, pos );
common = readInt( array,
pos + count( length ) );
s = ARRAYS.ensureCapacity( s, length + common, common );
BIG_ARRAYS.copyFromBig( array, pos + count( length ) + count ( common ), s, common, length );
pos += count( length ) + count( common ) + length;
length += common;
}
else {
s = ARRAYS.ensureCapacity( s, length = length( i ), 0 );
extract( i, s, 0, length );
}
}
i++;
return ARRAYS.copy( s, 0, length );
}

```

```

public KEY_TYPE[] previous() {
if ( ! hasPrevious() ) throw new NoSuchElementException();
inSync = false;
return getArray( --i );
}
};
}

```

/** Returns a copy of this list.

*

* @return a copy of this list.

*/

```

public ARRAY_FRONT_CODED_LIST clone() {
return this;
}

```

```

public String toString() {
final StringBuffer s = new StringBuffer();
s.append( "[ " );
for( int i = 0; i < n; i++ ) {
if ( i != 0 ) s.append( ", " );

```

```

        s.append( ARRAY_LIST.wrap( getArray( i ) ).toString() );
    }
    s.append(
    "]" );
    return s.toString();
}

/** Computes the pointer array using the currently set ratio, number of elements and underlying array.
 *
 * @return the computed pointer array.
 */

protected long[] rebuildPointerArray() {
    final long[] p = new long[ ( n + ratio - 1 ) / ratio ];
    final KEY_TYPE a[][] = array;
    int length, count;
    long pos = 0;

    for( int i = 0, j = 0, skip = ratio - 1; i < n; i++ ) {
        length = readInt( a, pos );
        count = count( length );
        if ( ++skip == ratio ) {
            skip = 0;
            p[ j++ ] = pos;
            pos += count + length;
        }
        else pos += count + count( readInt( a, pos + count ) ) + length;
    }

    return p;
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();

    // Rebuild pointer array
    p = rebuildPointerArray();
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed
);

private static KEY_TYPE genKey() {

```

```

#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
    return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
    return r.NEXT_KEY();
#elif #keyclass(Object)
    return Integer.toBinaryString( r.nextInt() );
#else
    return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, fp ).toString();
}

private static void speedTest( int n, boolean comp ) {
    System.out.println( "There are presently no speed tests for this class." );
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static boolean contentEquals( java.util.List
x, java.util.List y ) {
    if ( x.size() != y.size() ) return false;
    for( int i = 0; i < x.size(); i++ ) if ( ! java.util.Arrays.equals( (KEY_TYPE[])x.get( i ), (KEY_TYPE[])y.get( i ) ) )
return false;
    return true;
}

private static int l[];
private static KEY_TYPE[][] a;

private static void test( int n ) {

```

```

int c;

l = new int[ n ];
a = new KEY_TYPE[n][];

for( int i = 0; i < n; i++ ) l[i] = (int)(Math.abs(r.nextGaussian()*32);
for( int i = 0; i < n; i++ ) a[i] = new KEY_TYPE[l[i]];
for( int i = 0; i < n; i++ ) for( int j = 0; j < l[i]; j++ ) a[i][j] = genKey();

ARRAY_FRONT_CODED_LIST m = new ARRAY_FRONT_CODED_LIST(
it.unimi.dsi.fastutil.objects.ObjectIterators.wrap( a ), r.nextInt( 4 ) + 1 );
it.unimi.dsi.fastutil.objects.ObjectArrayList t = new it.unimi.dsi.fastutil.objects.ObjectArrayList( a );

//System.out.println(m);
//for( i = 0; i < t.size(); i++ ) System.out.println(ARRAY_LIST.wrap((KEY_TYPE[])t.get(i)));

/* Now we check that m actually
holds that data. */

ensure( contentEquals( m, t ), "Error (" + seed + "): m does not equal t at creation" );

/* Now we check cloning. */

ensure( contentEquals( m, (java.util.List)m.clone() ), "Error (" + seed + "): m does not equal m.clone()" );

/* Now we play with iterators. */

{
ObjectListIterator i;
java.util.ListIterator j;
Object J;
i = m.listIterator();
j = t.listIterator();

for( int k = 0; k < 2*n; k++ ) {
ensure( i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext()" );
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious()" );

if ( r.nextFloat() < .8 && i.hasNext() ) {
ensure( java.util.Arrays.equals( (KEY_TYPE[])i.next(), (KEY_TYPE[])j.next() ), "Error (" + seed + "): divergence
in next()" );

}
else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
ensure( java.util.Arrays.equals( (KEY_TYPE[])i.previous(), (KEY_TYPE[])j.previous() ), "Error ("
+ seed + "): divergence in previous()" );

}
}

```

```

ensure( i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex()" );

}

}

{
Object previous = null;
Object I, J;
int from = r.nextInt( m.size() +1 );
ObjectListIterator i;
java.util.ListIterator j;
i = m.listIterator( from );
j = t.listIterator( from );

for( int k = 0; k < 2*n; k++ ) {
    ensure( i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext() (iterator with starting point " +
from + ")" );
    ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious() (iterator with starting
point " + from + ")" );

    if ( r.nextFloat() < .8 && i.hasNext() ) {
        ensure( java.util.Arrays.equals( (KEY_TYPE[])i.next(), (KEY_TYPE[])j.next() ), "Error (" + seed + "): divergence
in next() (iterator with starting point "
+ from + ")" );
        //System.err.println("Done next " + I + " " + J + " " + badPrevious);
    }

    else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure( java.util.Arrays.equals( (KEY_TYPE[])i.previous(), (KEY_TYPE[])j.previous() ), "Error (" + seed + "):
divergence in previous() (iterator with starting point " + from + ")" );
    }

}

}

try {
java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

oos.writeObject(m);
oos.close();

```

```

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m = (ARRAY_FRONT_CODED_LIST)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit( 1 );
}

ensure( contentEquals( m, t ), "Error (" + seed + "): m does not equal t after
save/read" );

System.out.println("Test OK");
return;
}

public static void main( String args[] ) {
int n = Integer.parseInt(args[1]);
if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

try {
if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
else if ( "test".equals( args[0] ) ) test(n);
} catch( Throwable e ) {
e.printStackTrace( System.err );
System.err.println( "seed: " + seed );
}
}

#endif

}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayFrontCodedList.drv
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```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/BigArrays.java
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*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.Object2IntOpenHashMap;
```

```

import java.io.Serializable;
import java.util.concurrent.locks.ReentrantReadWriteLock;
import java.util.concurrent.locks.ReentrantReadWriteLock.ReadLock;
import java.util.concurrent.locks.ReentrantReadWriteLock.WriteLock;

/** A concurrent
counting map. The map is made by a number of <em>stripes</em> (instances of { @link
Object2IntOpenHashMap})
* which are accessed independently
* using a { @link ReentrantReadWriteLock}. Only one thread can write in a stripe at a time, but different stripes
* can be modified independently and read access can happen concurrently on each stripe.
*
* @param <K> the type of keys.
*/

public class STRIPED_OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {
private static final long serialVersionUID = 1L;

/** The stripes. Keys are distributed among them using the lower bits of their { @link Object#hashCode()}. */
private final OPEN_HASH_MAP KEY_VALUE_GENERIC[] map;
/** An array of locks parallel to { @link #map}, protecting each stripe. */
private final transient ReentrantReadWriteLock[] lock;
/** { @link #map map.length} &minus; 1, cached. */
private final int mask;

/** Creates a new concurrent counting map with
concurrency level equal to { @link Runtime#availableProcessors()}. */
public STRIPED_OPEN_HASH_MAP() {
this( Runtime.getRuntime().availableProcessors() );
}

/** Creates a new concurrent counting map.
*
* @param concurrencyLevel the number of stripes (it will be { @linkplain Integer#highestOneBit(int) forced to be a
power of two}); ideally, as large as the number of threads that will ever access
* this map, but higher values require more space.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public STRIPED_OPEN_HASH_MAP( final int concurrencyLevel ) {
map = new OPEN_HASH_MAP[ Integer.highestOneBit( concurrencyLevel ) ];
lock = new ReentrantReadWriteLock[ map.length ];
for( int i = map.length; i-- != 0; ) {
map[ i ] = new OPEN_HASH_MAP KEY_VALUE_GENERIC();
lock[ i ] = new ReentrantReadWriteLock();
}
mask = map.length - 1;
}

```

```

#if #keys(primitive)

public VALUE_GENERIC_CLASS get( final KEY_CLASS k ) {
    final int stripe = KEY2INTHASH( k ) & mask;
    final ReadLock readLock
= lock[ stripe ].readLock();
    try {
        readLock.lock();
        return map[ stripe ].get( k );
    }
    finally {
        readLock.unlock();
    }
}

#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE( final KEY_TYPE k ) {
    final int stripe = KEY2INTHASH( k ) & mask;
    final ReadLock readLock = lock[ stripe ].readLock();
    try {
        readLock.lock();
        return map[ stripe ].GET_VALUE( k );
    }
    finally {
        readLock.unlock();
    }
}

public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
    final int stripe = KEY2INTHASH( k ) & mask;
    final WriteLock writeLock = lock[ stripe ].writeLock();
    try {
        writeLock.lock();
        return map[ stripe ].put( k, v );
    }
    finally {
        writeLock.unlock();
    }
}

public VALUE_GENERIC_TYPE putIfAbsent( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE
v ) {
    final int stripe = KEY2INTHASH( k ) & mask;
    final WriteLock writeLock = lock[ stripe ].writeLock();
    try {

```

```

writeLock.lock();
if
( map[ stripe ].containsKey( k ) ) return map[ stripe ].get( k );
return map[ stripe ].put( k, v );
}
finally {
writeLock.unlock();
}
}

#ifdef values(primitive) || #keys(primitive)

public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov )
{
final int stripe = KEY2INTHASH( ok ) & mask;
final WriteLock writeLock = lock[ stripe ].writeLock();
try {
writeLock.lock();
return map[ stripe ].put( ok, ov );
}
finally {
writeLock.unlock();
}
}

public VALUE_GENERIC_CLASS putIfAbsent( final KEY_GENERIC_CLASS ok, final
VALUE_GENERIC_CLASS ov ) {
final int stripe = KEY2INTHASH( ok ) & mask;
final WriteLock writeLock = lock[ stripe ].writeLock();
try {
writeLock.lock();
if ( map[ stripe ].containsKey( ok ) ) return map[ stripe ].get( ok );
return map[ stripe ].put( ok, ov );
}
finally {
writeLock.unlock();
}
}

#endif

public int size() {
int size = 0;
for( int stripe = lock.length; stripe-- != 0; )
{
final ReadLock readLock = lock[ stripe ].readLock();
try {

```

```

    readLock.lock();
    size += map[ stripe ].size();
}
finally {
    readLock.unlock();
}
}

return size;
}

public FastEntrySet KEY_VALUE_GENERIC ENTRYSET() {
    throw new UnsupportedOperationException();
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/StripedOpenHashMap.drv

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 */

```

```

package PACKAGE;

```

```

/** An abstract class facilitating the creation of type-specific { @link plain java.util.ListIterator list iterators}.
 *
 * <P>This class provides trivial type-specific implementations of { @link
 * java.util.ListIterator#set(Object) set()} and { @link java.util.ListIterator#add(Object) add()} which
 * throw an { @link UnsupportedOperationException}. For primitive types, it also
 * provides a trivial implementation of { @link java.util.ListIterator#set(Object) set()} and { @link
 * java.util.ListIterator#add(Object) add()} that just invokes the type-specific one.
 *
 */

```

```

*
* @see java.util.ListIterator
*/

public abstract class KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC extends
KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC implements KEY_LIST_ITERATOR KEY_GENERIC {

protected KEY_ABSTRACT_LIST_ITERATOR() {}

#if #keys(primitive)
/** Delegates to the corresponding type-specific method. */
public void set( KEY_GENERIC_CLASS ok ) { set( ok.KEY_VALUE() ); }
/** Delegates to the corresponding type-specific method. */
public void add( KEY_GENERIC_CLASS ok ) { add( ok.KEY_VALUE() ); }
#endif

/** This method just throws an {@link UnsupportedOperationException}. */
public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
/** This method just throws an {@link UnsupportedOperationException}.
*/
public void add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractListIterator.drv

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*/

```

```
package PACKAGE;
```

```
import java.util.NoSuchElementException;
```

```

import it.unimi.dsi.fastutil.PriorityQueue;

/** A type-specific {@link PriorityQueue}; provides some additional methods that use polymorphism to avoid
(un)boxing.
*
* <P>Additionally, this interface strengthens {@link #comparator()}.
*/

public interface PRIORITY_QUEUE extends PriorityQueue<KEY_CLASS> {

    /** Enqueues a new element.
    *
    * @param x the element to enqueue.
    */

    void enqueue( KEY_GENERIC_TYPE x );

    /** Dequeues the {@link #first() first} element from the queue.
    *
    * @return the dequeued element.
    * @throws NoSuchElementException if the queue is empty.
    */

    KEY_GENERIC_TYPE DEQUEUE();

    /** Returns the first element of the queue.
    *
    * @return the first element.
    * @throws NoSuchElementException if the queue is empty.
    */

    KEY_GENERIC_TYPE FIRST();

    /** Returns the last element of the queue, that is, the element the would be dequeued last (optional operation).
    *
    * @return the last element.
    * @throws NoSuchElementException if the queue is empty.
    */

    KEY_GENERIC_TYPE LAST();

    /** Returns the comparator associated with this sorted set, or null if it uses its elements' natural ordering.
    *
    * <P>Note that this specification strengthens the one given in {@link PriorityQueue#comparator()}.
    *
    * @see PriorityQueue#comparator()
    */
}

```

```
KEY_COMPARATOR comparator();  
}
```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/PriorityQueue.drv

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ReferenceArrayMap.java

*

/* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2FloatArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntArrayMap.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongArrayMap.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleArrayMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2LongArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongArrayMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatArrayMap.java
*
*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ByteArrayMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharArraySet.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleArrayMap.java
*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2IntArrayMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortArrayMap.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleArrayMap.java
*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceArrayMap.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectArrayMap.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectArrayMap.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatArraySet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleArrayMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleArraySet.java

```
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortArrayMap.java
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```

```
/*
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 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.Function;
```

```
/** A type-specific {@link Function}; provides some additional methods that use polymorphism to avoid
(un)boxing.
```

```
*
 * <P>Type-specific versions of get(), put() and
 * remove() cannot rely on null to denote
 * absence of
 * a key. Rather, they return a { @linkplain #defaultReturnValue() default
 * return value }, which is set to 0 cast to the return type (false
 * for booleans) at creation, but can be changed using the
 * defaultReturnValue() method.
```

```
*
 * <P>For uniformity reasons, even maps returning objects implement the default
 * return value (of course, in this case the default return value is
 * initialized to null).
```

```
*
 * <P><strong>Warning:</strong> to fall in line as much as possible with the
 * { @linkplain java.util.Map standard map interface }, it is strongly suggested
 * that standard versions of get(), put() and
 * remove() for maps with primitive-type values return
 * null to denote missing keys rather than wrap the default
 * return value in an object (of course, for maps with object keys and values
 * this is not possible, as there is no type-specific version).
```

```

*
* @see Function
*/

public interface FUNCTION KEY_VALUE_GENERIC extends Function<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> {

#if #keys(primitive) || #values(primitive)

/** Adds a pair to the map.
*
* @param key the key.
* @param value the value.
* @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
* @see Function#put(Object,Object)
*/

VALUE_GENERIC_TYPE put( KEY_GENERIC_TYPE key, VALUE_GENERIC_TYPE value );

/** Returns the value to which the given key is mapped.
*
* @param key the key.
* @return the corresponding value, or the { @linkplain #defaultReturnValue() default return value } if no value was
present for the given key.
* @see Function#get(Object)
*/

VALUE_GENERIC_TYPE GET_VALUE( KEY_TYPE key );

/** Removes the mapping with the given key.
* @param key the key.
* @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the
given key.
* @see Function#remove(Object)
*/

VALUE_GENERIC_TYPE REMOVE_VALUE( KEY_TYPE key );
#endif

#if #keys(primitive)

/**
* @see Function#containsKey(Object)
*/

boolean containsKey( KEY_TYPE key );

```

```

#endif

/** Sets the default return value.
 *
 * This value must be returned by type-specific versions of
 * <code>get()</code>, <code>put()</code> and <code>remove()</code> to
 * denote that the map does not contain the specified key. It must be
 * 0/<code>>false</code>/<code>null</code> by default.
 *
 * @param rv the new default return value.
 * @see #defaultReturnValue()
 */

void defaultReturnValue( VALUE_GENERIC_TYPE rv );

/** Gets the default return value.
 *
 * @return the current default return value.
 */

VALUE_GENERIC_TYPE defaultReturnValue();
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Function.drv

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```

/*
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 * limitations under the License.
 */

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/objects/ReferenceBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloatBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/BigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/BigSwapper.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLongBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByteBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/Swapper.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObjectBigList.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/BigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/Size64.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectBigListIterator.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReferenceBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanBigList.java
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*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
import it.unimi.dsi.fastutil.objects.ObjectArrays;
```

```
/** A class providing static methods and objects that do useful things with type-specific collections.
 *
 * @see java.util.Collections
 */
```

```
public class COLLECTIONS {
```

```
    private COLLECTIONS() {}
```

```
    /** An immutable
     * class representing an empty type-specific collection.
```

```
     *
     * <P>This class may be useful to implement your own in case you subclass
     * a type-specific collection.
     */
```

```
    public abstract static class EmptyCollection KEY_GENERIC extends ABSTRACT_COLLECTION
    KEY_GENERIC {
```

```
        protected EmptyCollection() {}
```

```
        public boolean add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
```

```
        public boolean contains( KEY_TYPE k ) { return false; }
```

```
        public Object[] toArray() { return ObjectArrays.EMPTY_ARRAY; }
```

```
        #if #keys(primitive)
```

```
            public KEY_TYPE[] TO_KEY_ARRAY( KEY_TYPE[] a ) { return a; }
```

```

public KEY_TYPE[] TO_KEY_ARRAY() { return ARRAYS.EMPTY_ARRAY; }

public boolean rem( KEY_TYPE k ) { throw new UnsupportedOperationException(); }
public boolean addAll( COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean removeAll( COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean retainAll( COLLECTION c ) { throw new
UnsupportedOperationException(); }
public boolean containsAll( COLLECTION c ) { return c.isEmpty(); }
#else
public boolean remove( final Object k ) { throw new UnsupportedOperationException(); }
public <T> T[] toArray( T[] a ) { return a; }
#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return ITERATORS.EMPTY_ITERATOR; }

public int size() { return 0; }
public void clear() {}

public int hashCode() { return 0; }
public boolean equals( Object o ) {
if ( o == this ) return true;
if ( ! ( o instanceof Collection ) ) return false;
return ((Collection<?>)o).isEmpty();
}
}

/** A synchronized wrapper class for collections. */

public static class SynchronizedCollection KEY_GENERIC implements COLLECTION KEY_GENERIC,
java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final COLLECTION KEY_GENERIC collection;
protected final Object sync;

protected SynchronizedCollection(
final COLLECTION KEY_GENERIC c, final Object sync ) {
if ( c == null ) throw new NullPointerException();
this.collection = c;
this.sync = sync;
}

protected SynchronizedCollection( final COLLECTION KEY_GENERIC c ) {
if ( c == null ) throw new NullPointerException();
this.collection = c;
}

```

```

    this.sync = this;
}

public int size() { synchronized( sync ) { return collection.size(); } }
public boolean isEmpty() { synchronized( sync ) { return collection.isEmpty(); } }
public boolean contains( final KEY_TYPE o ) { synchronized( sync ) { return collection.contains( o ); } }

public KEY_TYPE[] TO_KEY_ARRAY() { synchronized( sync ) { return collection.TO_KEY_ARRAY(); } }

#if #keys(primitive)
    public Object[] toArray() { synchronized( sync ) { return collection.toArray(); } }
    public KEY_TYPE[] TO_KEY_ARRAY( final KEY_TYPE[] a ) { synchronized( sync ) { return
collection.TO_KEY_ARRAY( a ); } }
    public KEY_TYPE[] toArray( final KEY_TYPE[] a ) { synchronized(
sync ) { return collection.TO_KEY_ARRAY( a ); } }

    public boolean addAll( final COLLECTION c ) { synchronized( sync ) { return collection.addAll( c ); } }
    public boolean containsAll( final COLLECTION c ) { synchronized( sync ) { return collection.containsAll( c ); } }
    public boolean removeAll( final COLLECTION c ) { synchronized( sync ) { return collection.removeAll( c ); } }
    public boolean retainAll( final COLLECTION c ) { synchronized( sync ) { return collection.retainAll( c ); } }

    public boolean add( final KEY_GENERIC_CLASS k ) { synchronized( sync ) { return collection.add( k ); } }
    public boolean contains( final Object k ) { synchronized( sync ) { return collection.contains( k ); } }
#endif

public <T> T[] toArray( final T[] a ) { synchronized( sync ) { return collection.toArray( a ); } }

public KEY_ITERATOR KEY_GENERIC iterator() { return collection.iterator(); }

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

public
boolean add( final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return collection.add( k ); } }
public boolean rem( final KEY_TYPE k ) { synchronized( sync ) { return collection.REMOVE( k ); } }
public boolean remove( final Object ok ) { synchronized( sync ) { return collection.remove( ok ); } }

public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) { synchronized( sync ) { return
collection.addAll( c ); } }
public boolean containsAll( final Collection<?> c ) { synchronized( sync ) { return collection.containsAll( c ); } }
public boolean removeAll( final Collection<?> c ) { synchronized( sync ) { return collection.removeAll( c ); } }
public boolean retainAll( final Collection<?> c ) { synchronized( sync ) { return collection.retainAll( c ); } }

public void clear() { synchronized( sync ) { collection.clear(); } }
public String toString() { synchronized( sync ) { return collection.toString(); } }
}

```

```

/** Returns a synchronized collection
backed by the specified collection.
*
* @param c the collection to be wrapped in a synchronized collection.
* @return a synchronized view of the specified collection.
* @see java.util.Collections#synchronizedCollection(Collection)
*/
public static KEY_GENERIC COLLECTION KEY_GENERIC synchronize( final COLLECTION
KEY_GENERIC c ) { return new SynchronizedCollection KEY_GENERIC( c ); }

/** Returns a synchronized collection backed by the specified collection, using an assigned object to synchronize.
*
* @param c the collection to be wrapped in a synchronized collection.
* @param sync an object that will be used to synchronize the list access.
* @return a synchronized view of the specified collection.
* @see java.util.Collections#synchronizedCollection(Collection)
*/

public static KEY_GENERIC COLLECTION KEY_GENERIC synchronize( final COLLECTION
KEY_GENERIC c, final Object sync ) { return new SynchronizedCollection KEY_GENERIC( c, sync ); }

/** An unmodifiable wrapper
class for collections. */

public static class UnmodifiableCollection KEY_GENERIC implements COLLECTION KEY_GENERIC,
java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final COLLECTION KEY_GENERIC collection;

protected UnmodifiableCollection( final COLLECTION KEY_GENERIC c ) {
if ( c == null ) throw new NullPointerException();
this.collection = c;
}

public int size() { return collection.size(); }
public boolean isEmpty() { return collection.isEmpty(); }
public boolean contains( final KEY_TYPE o ) { return collection.contains( o ); }

public KEY_ITERATOR KEY_GENERIC iterator() { return ITERATORS.unmodifiable( collection.iterator() ); }

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

public boolean add( final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
public boolean remove( final Object ok ) { throw new UnsupportedOperationException(); }

```

```

}

public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
public boolean containsAll( final Collection<?> c ) { return collection.containsAll( c ); }
public boolean removeAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }
public boolean retainAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }

public void clear() { throw new UnsupportedOperationException(); }
public String toString() { return collection.toString(); }

public <T> T[] toArray( final T[] a ) { return collection.toArray( a ); }

public Object[] toArray() { return collection.toArray(); }

#if #keys(primitive)
public KEY_TYPE[] TO_KEY_ARRAY() { return collection.TO_KEY_ARRAY(); }
public KEY_TYPE[] TO_KEY_ARRAY( final KEY_TYPE[] a ) { return collection.TO_KEY_ARRAY( a ); }
public KEY_TYPE[] toArray( final KEY_TYPE[] a ) { return collection.toArray( a ); }
public boolean rem( final KEY_TYPE
k ) { throw new UnsupportedOperationException(); }

public boolean addAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean containsAll( final COLLECTION c ) { return collection.containsAll( c ); }
public boolean removeAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean retainAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }

public boolean add( final KEY_GENERIC_CLASS k ) { throw new UnsupportedOperationException(); }
public boolean contains( final Object k ) { return collection.contains( k ); }
#endif
}

/** Returns an unmodifiable collection backed by the specified collection.
 *
 * @param c the collection to be wrapped in an unmodifiable collection.
 * @return an unmodifiable view of the specified collection.
 * @see java.util.Collections#unmodifiableCollection(Collection)
 */
public static KEY_GENERIC COLLECTION KEY_GENERIC unmodifiable( final COLLECTION
KEY_GENERIC
c ) { return new UnmodifiableCollection KEY_GENERIC( c ); }

/** A collection wrapper class for iterables. */

public static class IterableCollection KEY_GENERIC extends ABSTRACT_COLLECTION KEY_GENERIC
implements java.io.Serializable {

```

```

private static final long serialVersionUID = -7046029254386353129L;

protected final KEY_ITERABLE KEY_GENERIC iterable;

protected IterableCollection( final KEY_ITERABLE KEY_GENERIC iterable ) {
    if ( iterable == null ) throw new NullPointerException();
    this.iterable = iterable;
}

public int size() {
    int c = 0;
    final KEY_ITERATOR KEY_GENERIC iterator = iterator();
    while( iterator.hasNext() ) {
        iterator.next();
        c++;
    }

    return c;
}

public boolean isEmpty() { return iterable.iterator().hasNext(); }
public KEY_ITERATOR KEY_GENERIC iterator() { return iterable.iterator(); }

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }
}

/** Returns an unmodifiable collection
backed by the specified iterable.
*
* @param iterable the iterable object to be wrapped in an unmodifiable collection.
* @return an unmodifiable collection view of the specified iterable.
*/
public static KEY_GENERIC COLLECTION KEY_GENERIC asCollection( final KEY_ITERABLE
KEY_GENERIC iterable ) {
    if ( iterable instanceof COLLECTION ) return (COLLECTION KEY_GENERIC)iterable;
    return new IterableCollection KEY_GENERIC( iterable );
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Collections.drv

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```

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*/

```

```
package PACKAGE;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
```

```
import java.util.Map;
import java.util.SortedMap;
```

```
#if #keys(reference)
import java.util.Comparator;
#endif
```

```
/** A type-specific {@link
SortedMap}; provides some additional methods that use polymorphism to avoid (un)boxing.
*
* <P>Additionally, this interface strengthens {@link #entrySet()},
* {@link #keySet()}, {@link #values()},
* {@link #comparator()}, {@link SortedMap#subMap(Object,Object)}, {@link SortedMap#headMap(Object)} and
* {@link SortedMap#tailMap(Object)}.
*
* @see SortedMap
*/
```

```
public interface SORTED_MAP_KEY_VALUE_GENERIC extends MAP_KEY_VALUE_GENERIC,
SortedMap<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> {
```

```
/** A sorted entry set providing fast iteration.
*
* <p>In some cases (e.g., hash-based classes) iteration over an entry set requires the creation
* of a large number of entry objects. Some fastutil
* maps might return {@linkplain #entrySet() entry set} objects of type FastSortedEntrySet: in this
```

```

case, { @link #fastIterator() fastIterator() }
    * will return an iterator that is guaranteed not to create a large number of objects, <em>possibly
    * by returning always the
same entry</em> (of course, mutated).
    */
public interface FastSortedEntrySet KEY_VALUE_GENERIC extends ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>, FastEntrySet KEY_VALUE_GENERIC {
    /** Returns a fast iterator over this sorted entry set; the iterator might return always the same entry object, suitably
mutated.
    *
    * @return a fast iterator over this sorted entry set; the iterator might return always the same entry object, suitably
mutated.
    */
    public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator( MAP.Entry
KEY_VALUE_GENERIC from );
}

/** Returns a sorted-set view of the mappings contained in this map.
    * Note that this specification strengthens the one given in the
    * corresponding type-specific unsorted map.
    *
    * @return a sorted-set view of the mappings contained in this map.
    * @see Map#entrySet()
    */

ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet();

/** Returns a type-specific sorted-set view of the
mappings contained in this map.
    * Note that this specification strengthens the one given in the
    * corresponding type-specific unsorted map.
    *
    * @return a type-specific sorted-set view of the mappings contained in this map.
    * @see #entrySet()
    */

ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET();

/** Returns a sorted-set view of the keys contained in this map.
    * Note that this specification strengthens the one given in the
    * corresponding type-specific unsorted map.
    *
    * @return a sorted-set view of the keys contained in this map.
    * @see Map#keySet()
    */

SORTED_SET KEY_GENERIC keySet();

```

```

/** Returns a set view of the values contained in this map.
 * <P>Note that this specification strengthens the one given in { @link Map#values() },
 * which was already strengthened in the corresponding type-specific class,
 * but was weakened by the fact that this interface extends { @link SortedMap }.
 *
 * @return a set view of the values contained in this map.

 * @see Map#values()
 */

VALUE_COLLECTION VALUE_GENERIC values();

/** Returns the comparator associated with this sorted set, or null if it uses its keys' natural ordering.
 *
 * <P>Note that this specification strengthens the one given in { @link SortedMap#comparator() }.
 *
 * @see SortedMap#comparator()
 */
KEY_COMPARATOR KEY_SUPER_GENERIC comparator();

/** Returns a view of the portion of this sorted map whose keys range from <code>fromKey</code>, inclusive, to
<code>toKey</code>, exclusive.
 *
 * <P>Note that this specification strengthens the one given in { @link SortedMap#subMap(Object, Object) }.
 *
 * @see SortedMap#subMap(Object, Object)
 */
SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_CLASS fromKey, KEY_GENERIC_CLASS
toKey);

/** Returns a view of the portion of this sorted map whose keys are strictly less than <code>toKey</code>.
 *
 * <P>Note that this specification strengthens the one given in { @link SortedMap#headMap(Object) }.
 *
 * @see SortedMap#headMap(Object)
 */
SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_CLASS toKey);

/** Returns a view of the portion of this sorted map whose keys are greater than or equal to
<code>fromKey</code>.
 *
 * <P>Note that this specification strengthens the one given in { @link SortedMap#tailMap(Object) }.
 *
 * @see SortedMap#tailMap(Object)
 */
SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_CLASS fromKey);

#if #keys(primitive)

```

```

/** Returns a view of the portion of this sorted map whose keys range from <code>fromKey</code>, inclusive, to
<code>toKey</code>, exclusive.
 * @see SortedMap#subMap(Object,Object)
 */
SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_TYPE fromKey, KEY_TYPE toKey);

/** Returns a view of the portion of this sorted map whose keys are strictly less than <code>toKey</code>.
 * @see SortedMap#headMap(Object)
 */
SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_TYPE toKey);

/** Returns a view of the portion of this sorted map whose keys are greater than or equal to
<code>fromKey</code>.
 * @see SortedMap#tailMap(Object)
 */
SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_TYPE fromKey);

/**
 * @see SortedMap#firstKey()
 */
KEY_TYPE FIRST_KEY();

/**
 * @see SortedMap#lastKey()
 */
KEY_TYPE LAST_KEY();
#endif
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedMap.drv

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```

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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package PACKAGE;

import VALUE_PACKAGE.VALUE_COLLECTION;

import it.unimi.dsi.fastutil.objects.ObjectSet;
import it.unimi.dsi.fastutil.objects.ObjectIterator;

import java.util.Map;

/** A type-specific {@link Map}; provides some additional methods that use polymorphism to avoid (un)boxing,
and handling of a default
return value.
*
* <P>Besides extending the corresponding type-specific {@linkplain it.unimi.dsi.fastutil.Function function}, this
interface strengthens {@link #entrySet()},
* {@link #keySet()} and {@link #values()}. Maps returning entry sets of type {@link FastEntrySet} support also
fast iteration.
*
* <P>A submap or subset may or may not have an
* independent default return value (which however must be initialized to the
* default return value of the originator).
*
* @see Map
*/

public interface MAP KEY_VALUE_GENERIC extends FUNCTION KEY_VALUE_GENERIC,
Map<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> {

/** An entry set providing fast iteration.
*
* <p>In some cases (e.g., hash-based classes) iteration over an entry set requires the creation
* of a large number of {@link java.util.Map.Entry} objects. Some <code>fastutil</code>
* maps might return {@linkplain #entrySet() entry set} objects of type <code>FastEntrySet</code>: in this case,
* {@link #fastIterator() fastIterator()}
*
* will return an iterator that is guaranteed not to create a large number of objects, <em>possibly
* by returning always the same entry</em> (of course, mutated).
*/

public interface FastEntrySet KEY_VALUE_GENERIC extends ObjectSet<MAP.Entry
KEY_VALUE_GENERIC> {
/** Returns a fast iterator over this entry set; the iterator might return always the same entry object, suitably
mutated.
*
* @return a fast iterator over this entry set; the iterator might return always the same {@link java.util.Map.Entry}
object, suitably mutated.

```

```

*/
public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator();
}

/** Returns a set view of the mappings contained in this map.
 * <P>Note that this specification strengthens the one given in { @link Map#entrySet()}.
 *
 * @return a set view of the mappings contained in this map.
 * @see Map#entrySet()
 */

ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet();

/** Returns a type-specific set view of
the mappings contained in this map.
 *
 * <p>This method is necessary because there is no inheritance along
 * type parameters: it is thus impossible to strengthen { @link #entrySet()}
 * so that it returns an { @link it.unimi.dsi.fastutil.objects.ObjectSet}
 * of type-specific entries (the latter makes it possible to
 * access keys and values with type-specific methods).
 *
 * @return a type-specific set view of the mappings contained in this map.
 * @see #entrySet()
 */

ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET();

/** Returns a set view of the keys contained in this map.
 * <P>Note that this specification strengthens the one given in { @link Map#keySet()}.
 *
 * @return a set view of the keys contained in this map.
 * @see Map#keySet()
 */

SET KEY_GENERIC keySet();

/** Returns a set view of the values contained in this map.
 * <P>Note that this specification strengthens the one given in { @link Map#values()}.
 *
 * @return a set view of the values contained
in this map.
 * @see Map#values()
 */

VALUE_COLLECTION VALUE_GENERIC values();

```

```

#if #values(primitive)

/**
 * @see Map#containsValue(Object)
 */

boolean containsValue( VALUE_TYPE value );

#endif

/** A type-specific { @link java.util.Map.Entry }; provides some additional methods
 * that use polymorphism to avoid (un)boxing.
 *
 * @see java.util.Map.Entry
 */

interface Entry KEY_VALUE_GENERIC extends Map.Entry
<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> {

#if #keys(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
KEY_GENERIC_CLASS getKey();
#endif

#if #keys(primitive)
/**
 * @see java.util.Map.Entry#getKey()
 */
KEY_TYPE ENTRY_GET_KEY();
#endif

#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
VALUE_GENERIC_CLASS getValue();
#endif

#if #values(primitive)
/**
 * @see
java.util.Map.Entry#setValue(Object)
 */
VALUE_TYPE setValue(VALUE_TYPE value);

```

```
/**
 * @see java.util.Map.Entry#getValue()
 */
VALUE_TYPE ENTRY_GET_VALUE();
#endif

}
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Map.drv
No license file was found, but licenses were detected in source scan.
```

```
/*
 * Copyright (C) 2002-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
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 * distributed under the License is distributed on an "AS IS" BASIS,
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 * limitations under the License.
 *
 *
 * For the sorting and binary search code:
 *
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 * both that copyright notice and this permission notice appear in
 * supporting documentation. CERN makes no representations about the
 * suitability of this software for any purpose. It is provided "as is"
 * without expressed or implied warranty.
 */
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.Arrays;
```

```

import it.unimi.dsi.fastutil.Hash;
import java.util.Random;
import java.util.concurrent.ForkJoinPool;
import java.util.concurrent.RecursiveAction;

#if ! #keyclass(Integer)
import it.unimi.dsi.fastutil.ints.IntArrays;
#endif

#if #keys(primitive)

#if ! #keyclass(Boolean)
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorCompletionService;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.atomic.AtomicInteger;
#endif

/** A class providing static methods and objects that do useful things with type-specific arrays.
 *
 * <p>In particular, the ensureCapacity(), grow(),
 * trim() and setLength() methods allow to handle
 * arrays much like array lists. This can be very useful when efficiency (or
 * syntactic simplicity) reasons make array lists unsuitable.
 *
 * <P>Note that { @link it.unimi.dsi.fastutil.io.BinIO } and { @link it.unimi.dsi.fastutil.io.TextIO }
 * contain several methods make it possible to load and save arrays of primitive types as sequences
 * of elements in { @link java.io.DataInput } format (i.e., not as objects) or as sequences of lines of text.
 *
 * <h2>Sorting</h2>
 *
 * <p>There are several sorting methods available. The main theme is that of letting you choose
 * the sorting algorithm you prefer (i.e., trading stability of mergesort for no memory allocation in quicksort).
 * Several algorithms provide a parallel version, that will use the { @linkplain Runtime#availableProcessors()
 * number of cores available }.
 * Some algorithms
 * also provide an explicit indirect sorting facility, which makes it possible
 * to sort an array using the values in another array as comparator.
 *
 * <p>All comparison-based algorithm have an implementation based on a type-specific comparator.
 *
 * <p>As a general rule, sequential radix sort is significantly faster than quicksort or mergesort, in particular
 * on random-looking data. In
 * the parallel case, up to a few cores parallel radix sort is still the fastest, but at some point quicksort
 * exploits parallelism better.
 *
 *

```

```

* <p>If you are fine with not knowing exactly which algorithm will be run (in particular, not knowing exactly
whether a support array will be allocated),
* the dual-pivot parallel sorts in { @link java.util.Arrays }
* are about 50% faster than the classical single-pivot implementation used here.
*
* <p>In any case, if sorting time is important I suggest that you benchmark your sorting load
* with your data distribution and on your architecture.
*
* @see java.util.Arrays
*/

```

```

public class ARRAYS {

```

```

#else

```

```

import java.util.Comparator;

```

```

/** A class providing static methods and objects that do useful things with type-specific arrays.

```

```

*

```

```

* In particular, the <code>ensureCapacity()</code>, <code>grow()</code>,
* <code>trim()</code> and <code>setLength()</code> methods allow to handle
* arrays much like array lists. This can be very useful when efficiency (or
* syntactic simplicity) reasons make array lists unsuitable.
*

```

```

*

```

```

* <P><strong>Warning:</strong> if your array is not of type { @code Object[] },
* { @link #ensureCapacity(Object[],int,int) } and { @link #grow(Object[],int,int) }
* will use { @linkplain java.lang.reflect.Array#newInstance(Class,int) reflection }
* to preserve your array type. Reflection is <em>significantly slower</em> than using <code>new</code>.
* This phenomenon is particularly
* evident in the first growth phases of an array reallocated with doubling (or similar) logic.
*

```

```

*

```

```

* <h2>Sorting</h2>

```

```

*

```

```

*

```

```

<p>There are several sorting methods available. The main theme is that of letting you choose
* the sorting algorithm you prefer (i.e., trading stability of mergesort for no memory allocation in quicksort).
* Several algorithms provide a parallel version, that will use the { @linkplain Runtime#availableProcessors()
number of cores available}.
*

```

```

*

```

```

* <p>All comparison-based algorithm have an implementation based on a type-specific comparator.
*

```

```

*

```

```

* <p>If you are fine with not knowing exactly which algorithm will be run (in particular, not knowing exactly
whether a support array will be allocated),
* the dual-pivot parallel sorts in { @link java.util.Arrays }
* are about 50% faster than the classical single-pivot implementation used here.
*
* <p>In any case, if sorting time is important I suggest that you benchmark your sorting load
* with your data distribution and on your architecture.

```

```

*
* @see java.util.Arrays
*/

public class ARRAYS {

#endif
private ARRAYS() {}

/** A static,
final, empty array. */
public final static KEY_TYPE[] EMPTY_ARRAY = {};

#if #keyclass(Object)
/** Creates a new array using a the given one as prototype.
*
* <P>This method returns a new array of the given length whose element
* are of the same class as of those of <code>prototype</code>. In case
* of an empty array, it tries to return { @link #EMPTY_ARRAY }, if possible.
*
* @param prototype an array that will be used to type the new one.
* @param length the length of the new array.
* @return a new array of given type and length.
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
private static <K> K[] newArray( final K[] prototype, final int length ) {
final Class<?> klass = prototype.getClass();
if ( klass == Object[].class ) return (K[])( length == 0 ? EMPTY_ARRAY : new Object[ length ] );
return (K[])java.lang.reflect.Array.newInstance( klass.getComponentType(), length );
}
#endif

/** Ensures that an array can contain the given number of entries.
*
* <P>If
you cannot foresee whether this array will need again to be
* enlarged, you should probably use <code>grow()</code> instead.
*
* @param array an array.
* @param length the new minimum length for this array.
* @return <code>array</code>, if it contains <code>length</code> entries or more; otherwise,
* an array with <code>length</code> entries whose first <code>array.length</code>
* entries are the same as those of <code>array</code>.
*/
public static KEY_GENERIC KEY_GENERIC_TYPE[] ensureCapacity( final KEY_GENERIC_TYPE[] array,
final int length ) {

```

```

    if ( length > array.length ) {
        final KEY_GENERIC_TYPE t[] =
#if #keyclass(Object)
        newArray( array, length );
#else
        new KEY_TYPE[ length ];
#endif
        System.arraycopy( array, 0, t, 0, array.length );
        return t;
    }
    return array;
}

/** Ensures that an array can contain the given number of entries, preserving just a part of the array.
 *
 * @param array an array.
 * @param length the new minimum length for
this array.
 * @param preserve the number of elements of the array that must be preserved in case a new allocation is
necessary.
 * @return <code>array</code>, if it can contain <code>length</code> entries or more; otherwise,
 * an array with <code>length</code> entries whose first <code>preserve</code>
 * entries are the same as those of <code>array</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[] ensureCapacity( final KEY_GENERIC_TYPE[] array,
final int length, final int preserve ) {
    if ( length > array.length ) {
        final KEY_GENERIC_TYPE t[] =
#if #keyclass(Object)
        newArray( array, length );
#else
        new KEY_TYPE[ length ];
#endif
        System.arraycopy( array, 0, t, 0, preserve );
        return t;
    }
    return array;
}

/** Grows the given array to the maximum between the given length and
 * the current length multiplied by two, provided that the given
 * length is larger than the current length.
 *
 * <P>If you want complete control on the array growth, you
 *
 * should probably use <code>ensureCapacity()</code> instead.
 *
 * @param array an array.

```

```

* @param length the new minimum length for this array.
* @return <code>array</code>, if it can contain <code>length</code>
* entries; otherwise, an array with
* max(<code>length</code>,<code>array.length</code>/&phi;) entries whose first
* <code>array.length</code> entries are the same as those of <code>array</code>.
* */

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[] grow( final KEY_GENERIC_TYPE[] array, final int
length ) {
    if ( length > array.length ) {
        final int newLength = (int)Math.max( Math.min( 2L * array.length, Arrays.MAX_ARRAY_SIZE ), length );
        final KEY_GENERIC_TYPE t[] =
#ifdef #keyclass(Object)
            newArray( array, newLength );
#else
            new KEY_TYPE[ newLength ];
#endif
        System.arraycopy( array, 0, t, 0, array.length );
        return t;
    }
    return array;
}

```

```

/** Grows the given array to the maximum between the given length and
* the current length multiplied by
two, provided that the given
* length is larger than the current length, preserving just a part of the array.
*

```

```

* <P>If you want complete control on the array growth, you
* should probably use <code>ensureCapacity()</code> instead.
*

```

```

* @param array an array.
* @param length the new minimum length for this array.
* @param preserve the number of elements of the array that must be preserved in case a new allocation is
necessary.

```

```

* @return <code>array</code>, if it can contain <code>length</code>
* entries; otherwise, an array with
* max(<code>length</code>,<code>array.length</code>/&phi;) entries whose first
* <code>preserve</code> entries are the same as those of <code>array</code>.
* */

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[] grow( final KEY_GENERIC_TYPE[] array, final int
length, final int preserve ) {

```

```

    if ( length > array.length ) {
        final int newLength = (int)Math.max( Math.min( 2L * array.length, Arrays.MAX_ARRAY_SIZE ), length );

```

```

        final KEY_GENERIC_TYPE

```

```

t[] =
#if #keyclass(Object)
    newArray( array, newLength );
#else
    new KEY_TYPE[ newLength ];
#endif
System.arraycopy( array, 0, t, 0, preserve );

return t;
}
return array;

}

/** Trims the given array to the given length.
 *
 * @param array an array.
 * @param length the new maximum length for the array.
 * @return <code>array</code>, if it contains <code>length</code>
 * entries or less; otherwise, an array with
 * <code>length</code> entries whose entries are the same as
 * the first <code>length</code> entries of <code>array</code>.
 *
 */

public static KEY_GENERIC KEY_GENERIC_TYPE[] trim( final KEY_GENERIC_TYPE[] array, final int length
) {
    if ( length >= array.length ) return array;
    final KEY_GENERIC_TYPE t[] =
#if #keyclass(Object)
        newArray( array, length );
#else
        length == 0 ? EMPTY_ARRAY : new KEY_TYPE[ length ];
#endif
    System.arraycopy( array, 0, t, 0, length );
    return t;
}

/** Sets the length of the given array.
 *
 * @param array an array.
 * @param length the new length for the array.
 * @return <code>array</code>, if it contains exactly <code>length</code>
 * entries; otherwise, if it contains <em>more</em> than
 * <code>length</code> entries, an array with <code>length</code> entries
 * whose entries are the same as the first <code>length</code> entries of
 * <code>array</code>; otherwise, an array with <code>length</code> entries

```

```

* whose first <code>array.length</code> entries are the same as those of
* <code>array</code>.
*
*/

public static KEY_GENERIC KEY_GENERIC_TYPE[] setLength( final KEY_GENERIC_TYPE[] array, final int
length ) {
    if ( length == array.length ) return array;
    if ( length < array.length ) return trim( array, length );
    return ensureCapacity( array, length );
}

/** Returns a copy of a portion of an array.
*
* @param array an array.
* @param offset the first element to copy.
* @param length the number of elements to copy.
* @return a new
array containing <code>length</code> elements of <code>array</code> starting at <code>offset</code>.
*/

public static KEY_GENERIC KEY_GENERIC_TYPE[] copy( final KEY_GENERIC_TYPE[] array, final int
offset, final int length ) {
    ensureOffsetLength( array, offset, length );
    final KEY_GENERIC_TYPE[] a =
#if #keyclass(Object)
    newArray( array, length );
#else
    length == 0 ? EMPTY_ARRAY : new KEY_TYPE[ length ];
#endif
    System.arraycopy( array, offset, a, 0, length );
    return a;
}

/** Returns a copy of an array.
*
* @param array an array.
* @return a copy of <code>array</code>.
*/

public static KEY_GENERIC KEY_GENERIC_TYPE[] copy( final KEY_GENERIC_TYPE[] array ) {
    return array.clone();
}

/** Fills the given array with the given value.
*
* @param array an array.
* @param value the new value for all elements of the array.

```

```
* @deprecated Please use the corresponding { @link java.util.Arrays } method.
```

```
*/
```

```
@Deprecated
```

```
public static KEY_GENERIC void fill(  
final KEY_GENERIC_TYPE[] array, final KEY_GENERIC_TYPE value ) {  
    int i = array.length;  
    while( i-- != 0 ) array[ i ] = value;  
}
```

```
/** Fills a portion of the given array with the given value.
```

```
*
```

```
* @param array an array.
```

```
* @param from the starting index of the portion to fill (inclusive).
```

```
* @param to the end index of the portion to fill (exclusive).
```

```
* @param value the new value for all elements of the specified portion of the array.
```

```
* @deprecated Please use the corresponding { @link java.util.Arrays } method.
```

```
*/
```

```
@Deprecated
```

```
public static KEY_GENERIC void fill( final KEY_GENERIC_TYPE[] array, final int from, int to, final  
KEY_GENERIC_TYPE value ) {  
    ensureFromTo( array, from, to );  
    if ( from == 0 ) while( to-- != 0 ) array[ to ] = value;  
    else for( int i = from; i < to; i++ ) array[ i ] = value;  
}
```

```
/** Returns true if the two arrays are elementwise equal.
```

```
*
```

```
* @param a1 an array.
```

```
* @param a2 another array.
```

```
* @return true if the two arrays are of the same
```

```
length, and their elements are equal.
```

```
* @deprecated Please use the corresponding { @link java.util.Arrays } method, which is intrinsified in recent JVMs.
```

```
*/
```

```
@Deprecated
```

```
public static KEY_GENERIC boolean equals( final KEY_GENERIC_TYPE[] a1, final KEY_GENERIC_TYPE  
a2[] ) {  
    int i = a1.length;  
    if ( i != a2.length ) return false;  
    while( i-- != 0 ) if ( ! KEY_EQUALS( a1[ i ], a2[ i ] ) ) return false;  
    return true;  
}
```

```

/** Ensures that a range given by its first (inclusive) and last (exclusive) elements fits an array.
 *
 * <P>This method may be used whenever an array range check is needed.
 *
 * @param a an array.
 * @param from a start index (inclusive).
 * @param to an end index (exclusive).
 * @throws IllegalArgumentException if <code>from</code> is greater than <code>to</code>.
 * @throws ArrayIndexOutOfBoundsException if <code>from</code> or <code>to</code> are greater than the
array length or negative.
 */
public static KEY_GENERIC void ensureFromTo( final KEY_GENERIC_TYPE[]
a, final int from, final int to ) {
    Arrays.ensureFromTo( a.length, from, to );
}

/** Ensures that a range given by an offset and a length fits an array.
 *
 * <P>This method may be used whenever an array range check is needed.
 *
 * @param a an array.
 * @param offset a start index.
 * @param length a length (the number of elements in the range).
 * @throws IllegalArgumentException if <code>length</code> is negative.
 * @throws ArrayIndexOutOfBoundsException if <code>offset</code> is negative or
<code>offset</code>+<code>length</code> is greater than the array length.
 */
public static KEY_GENERIC void ensureOffsetLength( final KEY_GENERIC_TYPE[] a, final int offset, final int
length ) {
    Arrays.ensureOffsetLength( a.length, offset, length );
}

/** Ensures that two arrays are of the same length.
 *
 * @param a an array.
 * @param b another array.
 * @throws IllegalArgumentException if the two argument arrays are not of the same length.
 */
public
static KEY_GENERIC void ensureSameLength( final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE[]
b ) {
    if ( a.length != b.length ) throw new IllegalArgumentException( "Array size mismatch: " + a.length + " != " +
b.length );
}

private static final int QUICKSORT_NO_REC = 16;

```

```

private static final int PARALLEL_QUICKSORT_NO_FORK = 8192;
private static final int QUICKSORT_MEDIAN_OF_9 = 128;
private static final int MERGESORT_NO_REC = 16;

/** Swaps two elements of an array.
 *
 * @param x an array.
 * @param a a position in { @code x }.
 * @param b another position in { @code x }.
 */
public static KEY_GENERIC void swap( final KEY_GENERIC_TYPE x[], final int a, final int b ) {
    final KEY_GENERIC_TYPE t = x[ a ];
    x[ a ] = x[ b ];
    x[ b ] = t;
}

/** Swaps two sequences of elements of an array.
 *
 * @param x an array.
 * @param a a position in { @code x }.
 * @param b another position in { @code x }.
 * @param n the number of elements to exchange starting at { @code a } and
 { @code b }.
 */
public static KEY_GENERIC void swap( final KEY_GENERIC_TYPE[] x, int a, int b, final int n ) {
    for( int i = 0; i < n; i++, a++, b++ ) swap( x, a, b );
}

private static KEY_GENERIC int med3( final KEY_GENERIC_TYPE x[], final int a, final int b, final int c,
KEY_COMPARATOR KEY_GENERIC comp ) {
    final int ab = comp.compare( x[ a ], x[ b ] );
    final int ac = comp.compare( x[ a ], x[ c ] );
    final int bc = comp.compare( x[ b ], x[ c ] );
    return ( ab < 0 ?
        ( bc < 0 ? b : ac < 0 ? c : a ) :
        ( bc > 0 ? b : ac > 0 ? c : a ) );
}

private static KEY_GENERIC void selectionSort( final KEY_GENERIC_TYPE[] a, final int from, final int to, final
KEY_COMPARATOR KEY_GENERIC comp ) {
    for( int i = from; i < to - 1; i++ ) {
        int m = i;
        for( int j = i + 1; j < to; j++ ) if ( comp.compare( a[ j ], a[ m ] ) < 0 ) m = j;
        if ( m != i ) {
            final KEY_GENERIC_TYPE u = a[ i ];
            a[ i ] = a[ m ];
            a[ m ] = u;
        }
    }
}

```

```

}
}

private static KEY_GENERIC void insertionSort(
final KEY_GENERIC_TYPE[] a, final int from, final int to, final KEY_COMPARATOR KEY_GENERIC comp )
{
for ( int i = from; ++i < to; ) {
KEY_GENERIC_TYPE t = a[ i ];
int j = i;
for ( KEY_GENERIC_TYPE u = a[ j - 1 ]; comp.compare( t, u ) < 0; u = a[ --j - 1 ] ) {
a[ j ] = u;
if ( from == j - 1 ) {
--j;
break;
}
}
a[ j ] = t;
}
}

/** Sorts the specified range of elements according to the order induced by the specified
* comparator using quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249&minus;1265, 1993.
*
* <p>Note that this implementation does not allocate any object, contrarily to the implementation
* used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
*
* @param x the array to be sorted.
*
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
* @param comp the comparator to determine the sorting order.
*
*/
public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[] x, final int from, final int to, final
KEY_COMPARATOR KEY_GENERIC comp ) {
final int len = to - from;
// Selection sort on smallest arrays
if ( len < QUICKSORT_NO_REC ) {
selectionSort( x, from, to, comp );
return;
}
}

```

```

// Choose a partition element, v
int m = from + len / 2;
int l = from;
int n = to - 1;
if ( len > QUICKSORT_MEDIAN_OF_9 ) { // Big arrays, pseudomedian of 9
    int s = len / 8;
    l = med3( x, l, l + s, l + 2 * s, comp );
    m = med3( x, m - s, m, m + s, comp );
    n = med3( x, n - 2 * s, n - s, n, comp );
}
m = med3( x, l, m, n, comp ); // Mid-size, med of 3

final KEY_GENERIC_TYPE v = x[ m ];

// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c =
to - 1, d = c;
while( true ) {
    int comparison;
    while ( b <= c && ( comparison = comp.compare( x[ b ], v ) <= 0 ) {
        if ( comparison == 0 ) swap( x, a++, b );
        b++;
    }
    while ( c >= b && ( comparison = comp.compare( x[ c ], v ) >= 0 ) {
        if ( comparison == 0 ) swap( x, c, d-- );
        c--;
    }
    if ( b > c ) break;
    swap( x, b++, c-- );
}

// Swap partition elements back to middle
int s;
s = Math.min( a - from, b - a );
swap( x, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
swap( x, b, to - s, s );

// Recursively sort non-partition-elements
if ( ( s = b - a ) > 1 ) quickSort( x, from, from + s, comp );
if ( ( s = d - c ) > 1 ) quickSort( x, to - s, to, comp );
}

/** Sorts an array according to the order induced by the specified
 * comparator using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice

```

and Experience</i>, 23(11), pages

* 1249−1265, 1993.

*

* <p>Note that this implementation does not allocate any object, contrarily to the implementation

* used to sort primitive types in { @link java.util.Arrays}, which switches to mergesort on large inputs.

*

* @param x the array to be sorted.

* @param comp the comparator to determine the sorting order.

*

*/

```
public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[] x, final KEY_COMPARATOR
KEY_GENERIC comp ) {
    quickSort( x, 0, x.length, comp );
}
```

```
protected static class ForkJoinQuickSortComp KEY_GENERIC extends RecursiveAction {
    private static final long serialVersionUID = 1L;
    private final int from;
    private final int to;
    private final KEY_GENERIC_TYPE[] x;
    private final KEY_COMPARATOR KEY_GENERIC comp;
```

```
    public ForkJoinQuickSortComp( final KEY_GENERIC_TYPE[] x , final int from , final int to, final
KEY_COMPARATOR KEY_GENERIC comp ) {
        this.from = from;
        this.to = to;
        this.x
= x;
        this.comp = comp;
    }
```

@Override

```
protected void compute() {
    final KEY_GENERIC_TYPE[] x = this.x;
    final int len = to - from;
    if ( len < PARALLEL_QUICKSORT_NO_FORK ) {
        quickSort( x, from, to, comp );
        return;
    }
    // Choose a partition element, v
    int m = from + len / 2;
    int l = from;
    int n = to - 1;
    int s = len / 8;
    l = med3( x, l, l + s, l + 2 * s );
    m = med3( x, m - s, m, m + s );
    n = med3( x, n - 2 * s, n - s, n );
```

```

m = med3( x, l, m, n );
final KEY_GENERIC_TYPE v = x[ m ];
// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while ( true ) {
    int comparison;
    while ( b <= c && ( comparison = comp.compare( x[ b ], v ) ) <= 0 ) {
        if ( comparison == 0 ) swap( x, a++, b );
        b++;
    }
    while ( c >= b && ( comparison = comp.compare( x[ c ], v ) ) >= 0 ) {
        if ( comparison == 0 ) swap( x, c, d-- );
        c--;
    }
    if ( b > c ) break;
    swap( x, b++, c-- );
}
//
Swap partition elements back to middle
int t;
s = Math.min( a - from, b - a );
swap( x, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
swap( x, b, to - s, s );
// Recursively sort non-partition-elements
s = b - a;
t = d - c;
if ( s > 1 && t > 1 ) invokeAll( new ForkJoinQuickSortComp KEY_GENERIC( x, from, from + s, comp ), new
ForkJoinQuickSortComp KEY_GENERIC( x, to - t, to, comp ) );
else if ( s > 1 ) invokeAll( new ForkJoinQuickSortComp KEY_GENERIC( x, from, from + s, comp ) );
else invokeAll( new ForkJoinQuickSortComp KEY_GENERIC( x, to - t, to, comp ) );
}
}

/** Sorts the specified range of elements according to the order induced by the specified
 * comparator using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service with
 * { @link Runtime#availableProcessors() } parallel threads.
 *
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.

```

```

* @param comp the comparator to determine the sorting order.
*/
public static KEY_GENERIC void parallelQuickSort( final KEY_GENERIC_TYPE[] x, final int from, final int to,
final KEY_COMPARATOR KEY_GENERIC comp ) {
    if ( to - from < PARALLEL_QUICKSORT_NO_FORK ) quickSort( x, from, to, comp );
    else {
        final ForkJoinPool pool = new ForkJoinPool( Runtime.getRuntime().availableProcessors() );
        pool.invoke( new ForkJoinQuickSortComp KEY_GENERIC( x, from, to, comp ) );
        pool.shutdown();
    }
}

/** Sorts an array according to the order induced by the specified
* comparator using a parallel quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted
from Jon L. Bentley and M. Douglas
* McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249&minus;1265, 1993.
*
* <p>This implementation uses a { @link ForkJoinPool } executor service with
* { @link Runtime#availableProcessors() } parallel threads.
*
* @param x the array to be sorted.
* @param comp the comparator to determine the sorting order.
*/
public static KEY_GENERIC void parallelQuickSort( final KEY_GENERIC_TYPE[] x, final
KEY_COMPARATOR KEY_GENERIC comp ) {
    parallelQuickSort( x, 0, x.length, comp );
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private static KEY_GENERIC int med3( final KEY_GENERIC_TYPE x[], final int a, final int b, final int c ) {
    final int ab = KEY_CMP( x[ a ], x[ b ] );
    final int ac = KEY_CMP( x[ a ], x[ c ] );
    final int bc = KEY_CMP( x[ b ], x[ c ] );
    return ( ab < 0 ?
        ( bc < 0 ? b : ac < 0 ? c : a ) :
        ( bc > 0 ? b : ac > 0 ? c : a ) );
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private
static KEY_GENERIC void selectionSort( final KEY_GENERIC_TYPE[] a, final int from, final int to ) {
    for( int i = from; i < to - 1; i++ ) {
        int m = i;
        for( int j = i + 1; j < to; j++ ) if ( KEY_LESS( a[ j ], a[ m ] ) ) m = j;
    }
}

```

```

if ( m != i ) {
    final KEY_GENERIC_TYPE u = a[ i ];
    a[ i ] = a[ m ];
    a[ m ] = u;
}
}
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private static KEY_GENERIC void insertionSort( final KEY_GENERIC_TYPE[] a, final int from, final int to ) {
    for ( int i = from; ++i < to; ) {
        KEY_GENERIC_TYPE t = a[ i ];
        int j = i;
        for ( KEY_GENERIC_TYPE u = a[ j - 1 ]; KEY_LESS( t, u ); u = a[ --j - 1 ] ) {
            a[ j ] = u;
            if ( from == j - 1 ) {
                --j;
                break;
            }
        }
        a[ j ] = t;
    }
}

```

/** Sorts the specified range of elements according to the natural ascending order using quicksort.

*

* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas

* McIlroy, “Engineering a Sort Function”.,

<i>Software: Practice and Experience</i>, 23(11), pages

* 1249−1265, 1993.

*

* <p>Note that this implementation does not allocate any object, contrarily to the implementation

* used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.

*

* @param x the array to be sorted.

* @param from the index of the first element (inclusive) to be sorted.

* @param to the index of the last element (exclusive) to be sorted.

*/

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[] x, final int from, final int to ) {
    final int len = to - from;
    // Selection sort on smallest arrays
    if ( len < QUICKSORT_NO_REC ) {
        selectionSort( x, from, to );
        return;
    }
}

```

```

// Choose a partition element, v
int m = from + len / 2;
int l = from;
int n = to - 1;
if ( len > QUICKSORT_MEDIAN_OF_9 ) { // Big arrays, pseudomedian of 9
    int s = len / 8;
    l = med3( x, l, l + s,
l + 2 * s );
    m = med3( x, m - s, m, m + s );
    n = med3( x, n - 2 * s, n - s, n );
}
m = med3( x, l, m, n ); // Mid-size, med of 3

final KEY_GENERIC_TYPE v = x[ m ];

// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while(true) {
    int comparison;
    while ( b <= c && ( comparison = KEY_CMP( x[ b ], v ) <= 0 ) ) {
        if ( comparison == 0 ) swap( x, a++, b );
        b++;
    }
    while ( c >= b && ( comparison = KEY_CMP( x[ c ], v ) >= 0 ) ) {
        if ( comparison == 0 ) swap( x, c, d-- );
        c--;
    }
    if ( b > c ) break;
    swap( x, b++, c-- );
}

// Swap partition elements back to middle
int s;
s = Math.min( a - from, b - a );
swap( x, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
swap( x, b, to - s, s );

// Recursively sort non-partition-elements
if ( ( s = b - a ) > 1 ) quickSort( x, from, from + s );
if ( ( s = d - c ) > 1 ) quickSort( x, to - s, to );
}

/** Sorts an array according to the natural ascending
order using quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages

```

```

* 1249&minus;1265, 1993.
*
* <p>Note that this implementation does not allocate any object, contrarily to the implementation
* used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
*
* @param x the array to be sorted.
*
*/
public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[] x ) {
    quickSort( x, 0, x.length );
}

protected static class ForkJoinQuickSort KEY_GENERIC extends RecursiveAction {
    private static final long serialVersionUID = 1L;
    private final int from;
    private final int to;
    private final KEY_GENERIC_TYPE[] x;

    public ForkJoinQuickSort( final KEY_GENERIC_TYPE[] x , final int from , final int to ) {
        this.from = from;
        this.to = to;
        this.x
    = x;
    }

    @Override
    SUPPRESS_WARNINGS_KEY_UNCHECKED
    protected void compute() {
        final KEY_GENERIC_TYPE[] x = this.x;
        final int len = to - from;
        if ( len < PARALLEL_QUICKSORT_NO_FORK ) {
            quickSort( x, from, to );
            return;
        }
        // Choose a partition element, v
        int m = from + len / 2;
        int l = from;
        int n = to - 1;
        int s = len / 8;
        l = med3( x, l, l + s, l + 2 * s );
        m = med3( x, m - s, m, m + s );
        n = med3( x, n - 2 * s, n - s, n );
        m = med3( x, l, m, n );
        final KEY_GENERIC_TYPE v = x[ m ];
        // Establish Invariant: v* (<v)* (>v)* v*
        int a = from, b = a, c = to - 1, d = c;
        while ( true ) {
            int comparison;

```

```

while ( b <= c && ( comparison = KEY_CMP( x[ b ], v ) ) <= 0 ) {
    if ( comparison == 0 ) swap( x, a++, b );
    b++;
}
while ( c >= b && ( comparison = KEY_CMP( x[ c ], v ) ) >= 0 ) {
    if ( comparison == 0 ) swap( x, c, d-- );
    c--;
}
if ( b > c ) break;
swap( x, b++, c-- );
}
// Swap
partition elements back to middle
int t;
s = Math.min( a - from, b - a );
swap( x, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
swap( x, b, to - s, s );
// Recursively sort non-partition-elements
s = b - a;
t = d - c;
if ( s > 1 && t > 1 ) invokeAll( new ForkJoinQuickSort KEY_GENERIC( x, from, from + s ), new
ForkJoinQuickSort KEY_GENERIC( x, to - t, to ) );
else if ( s > 1 ) invokeAll( new ForkJoinQuickSort KEY_GENERIC( x, from, from + s ) );
else invokeAll( new ForkJoinQuickSort KEY_GENERIC( x, to - t, to ) );
}
}

/** Sorts the specified range of elements according to the natural ascending order using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service
with
 * { @link Runtime#availableProcessors() } parallel threads.
 *
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static KEY_GENERIC void parallelQuickSort( final KEY_GENERIC_TYPE[] x, final int from, final int to )
{
    if ( to - from < PARALLEL_QUICKSORT_NO_FORK ) quickSort( x, from, to );
    else {
        final ForkJoinPool pool = new ForkJoinPool( Runtime.getRuntime().availableProcessors() );
        pool.invoke( new ForkJoinQuickSort KEY_GENERIC( x, from, to ) );
    }
}

```

```

pool.shutdown();
}
}

/** Sorts an array according to the natural ascending order using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * <p>This implementation uses
 a { @link ForkJoinPool} executor service with
 * { @link Runtime#availableProcessors()} parallel threads.
 *
 * @param x the array to be sorted.
 *
 */
public static KEY_GENERIC void parallelQuickSort( final KEY_GENERIC_TYPE[] x ) {
parallelQuickSort( x, 0, x.length );
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private static KEY_GENERIC int med3Indirect( final int perm[], final KEY_GENERIC_TYPE x[], final int a, final
int b, final int c ) {
final KEY_GENERIC_TYPE aa = x[ perm[ a ] ];
final KEY_GENERIC_TYPE bb = x[ perm[ b ] ];
final KEY_GENERIC_TYPE cc = x[ perm[ c ] ];
final int ab = KEY_CMP( aa, bb );
final int ac = KEY_CMP( aa, cc );
final int bc = KEY_CMP( bb, cc );
return ( ab < 0 ?
( bc < 0 ? b : ac < 0 ? c : a ) :
( bc > 0 ? b : ac > 0 ? c : a ) );
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private static KEY_GENERIC void insertionSortIndirect( final int[] perm, final KEY_GENERIC_TYPE[] a, final
int from, final int to ) {
for ( int i = from; ++i < to; )
{
int t = perm[ i ];
int j = i;
for ( int u = perm[ j - 1 ]; KEY_LESS( a[ t ], a[ u ] ); u = perm[ --j - 1 ] ) {
perm[ j ] = u;
if ( from == j - 1 ) {
--j;
break;
}
}
}
}

```

```

    }
    }
    perm[ j ] = t;
    }
}

/** Sorts the specified range of elements according to the natural ascending order using indirect quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>x[ perm[ i ] ] &le; x[ perm[ i + 1 ] ]</code>.
 *
 * <p>Note that this implementation does not allocate any object, contrarily to the implementation
 * used to sort primitive types in { @link java.util.Arrays},
which switches to mergesort on large inputs.
 *
 * @param perm a permutation array indexing { @code x}.
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

public static KEY_GENERIC void quickSortIndirect( final int[] perm, final KEY_GENERIC_TYPE[] x, final int
from, final int to ) {
    final int len = to - from;
    // Selection sort on smallest arrays
    if ( len < QUICKSORT_NO_REC ) {
        insertionSortIndirect( perm, x, from, to );
        return;
    }

    // Choose a partition element, v
    int m = from + len / 2;
    int l = from;
    int n = to - 1;
    if ( len > QUICKSORT_MEDIAN_OF_9 ) { // Big arrays, pseudomedian of 9
        int s = len / 8;
        l = med3Indirect( perm, x, l, l + s, l + 2 * s );
        m = med3Indirect( perm, x, m - s, m, m + s );
        n = med3Indirect( perm, x, n - 2 * s, n - s, n );
    }
    m = med3Indirect( perm, x,

```

```

l, m, n ); // Mid-size, med of 3

final KEY_GENERIC_TYPE v = x[ perm[ m ] ];

// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while(true) {
    int comparison;
    while ( b <= c && ( comparison = KEY_CMP( x[ perm[ b ] ], v ) <= 0 ) {
        if ( comparison == 0 ) IntArrays.swap( perm, a++, b );
        b++;
    }
    while ( c >= b && ( comparison = KEY_CMP( x[ perm[ c ] ], v ) >= 0 ) {
        if ( comparison == 0 ) IntArrays.swap( perm, c, d-- );
        c--;
    }
    if ( b > c ) break;
    IntArrays.swap( perm, b++, c-- );
}

// Swap partition elements back to middle
int s;
s = Math.min( a - from, b - a );
IntArrays.swap( perm, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
IntArrays.swap( perm, b, to - s, s );

// Recursively sort non-partition-elements
if ( ( s = b - a ) > 1 ) quickSortIndirect( perm, x, from, from + s );
if ( ( s = d - c ) > 1 ) quickSortIndirect( perm, x, to - s, to );
}

/** Sorts an array according to the
natural ascending order using indirect quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249&minus;1265, 1993.
*
* <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>x[ perm[ i ] ] &le; x[ perm[ i + 1 ] ]</code>.
*
* <p>Note that this implementation does not allocate any object, contrarily to the implementation
* used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
*
* @param perm a permutation array indexing { @code x }.
* @param x the array to be sorted.

```

```

*/
public static KEY_GENERIC void quickSortIndirect( final int perm[], final KEY_GENERIC_TYPE[] x ) {
    quickSortIndirect( perm, x, 0, x.length
);
}

protected static class ForkJoinQuickSortIndirect KEY_GENERIC extends RecursiveAction {
    private static final long serialVersionUID = 1L;
    private final int from;
    private final int to;
    private final int[] perm;
    private final KEY_GENERIC_TYPE[] x;

    public ForkJoinQuickSortIndirect( final int perm[], final KEY_GENERIC_TYPE[] x , final int from , final int to ) {
        this.from = from;
        this.to = to;
        this.x = x;
        this.perm = perm;
    }

    @Override
    SUPPRESS_WARNINGS_KEY_UNCHECKED
    protected void compute() {
        final KEY_GENERIC_TYPE[] x = this.x;
        final int len = to - from;
        if ( len < PARALLEL_QUICKSORT_NO_FORK ) {
            quickSortIndirect( perm, x, from, to );
            return;
        }
        // Choose a partition element, v
        int m = from + len / 2;
        int l = from;
        int n = to - 1;
        int s = len / 8;
        l = med3Indirect( perm, x, l, l + s, l + 2 * s );
        m = med3Indirect( perm, x, m - s, m, m + s );
        n = med3Indirect( perm, x, n - 2 * s, n - s, n );
        m =
        med3Indirect( perm, x, l, m, n );
        final KEY_GENERIC_TYPE v = x[ perm[ m ] ];
        // Establish Invariant: v* (<v)* (>v)* v*
        int a = from, b = a, c = to - 1, d = c;
        while ( true ) {
            int comparison;
            while ( b <= c && ( comparison = KEY_CMP( x[ perm[ b ] ], v ) ) <= 0 ) {
                if ( comparison == 0 ) IntArrays.swap( perm, a++, b );
                b++;
            }

```

```

while ( c >= b && ( comparison = KEY_CMP( x[ perm[ c ] ], v ) ) >= 0 ) {
    if ( comparison == 0 ) IntArrays.swap( perm, c, d-- );
    c--;
}
if ( b > c ) break;
IntArrays.swap( perm, b++, c-- );
}
// Swap partition elements back to middle
int t;
s = Math.min( a - from, b - a );
IntArrays.swap( perm, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
IntArrays.swap( perm, b, to - s, s );
// Recursively sort non-partition-elements
s = b - a;
t = d - c;
if ( s > 1 && t > 1 ) invokeAll( new ForkJoinQuickSortIndirect KEY_GENERIC( perm, x, from, from + s ), new
ForkJoinQuickSortIndirect
KEY_GENERIC( perm, x, to - t, to ) );
    else if ( s > 1 ) invokeAll( new ForkJoinQuickSortIndirect KEY_GENERIC( perm, x, from, from + s ) );
    else invokeAll( new ForkJoinQuickSortIndirect KEY_GENERIC( perm, x, to - t, to ) );
}
}

/** Sorts the specified range of elements according to the natural ascending order using a parallel indirect quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>x[ perm[ i ] ] &le; x[ perm[ i + 1 ] ]</code>.
 *
 * <p>This implementation uses a { @link ForkJoinPool} executor service with
 * { @link Runtime#availableProcessors()} parallel threads.
 *
 * @param perm a permutation array indexing { @code x }.
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static KEY_GENERIC void parallelQuickSortIndirect( final int[] perm, final KEY_GENERIC_TYPE[] x,
final int from, final int to ) {
    if ( to - from < PARALLEL_QUICKSORT_NO_FORK ) quickSortIndirect( perm, x, from, to );
    else {
        final ForkJoinPool pool = new ForkJoinPool( Runtime.getRuntime().availableProcessors() );

```

```

pool.invoke( new ForkJoinQuickSortIndirect KEY_GENERIC( perm, x, from, to ) );
pool.shutdown();
}
}

/** Sorts an array according to the natural ascending order using a parallel indirect quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>x[ perm[ i ] ] &le; x[ perm[ i + 1 ] ]</code>.
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service with
 * { @link Runtime#availableProcessors() } parallel threads.
 *
 * @param perm a permutation array indexing { @code x }.
 * @param x the array to be sorted.
 */
public static KEY_GENERIC void parallelQuickSortIndirect( final int perm[], final KEY_GENERIC_TYPE[] x ) {
parallelQuickSortIndirect( perm, x, 0, x.length );
}

/** Stabilizes a permutation.
 *
 * <p>This method can be used to stabilize the permutation generated by an indirect sorting, assuming that
 * initially the permutation array was in ascending order (e.g., the identity, as usually happens). This method
 * scans the permutation, and for each non-singleton
block of elements with the same associated values in { @code x },
 * permutes them in ascending order. The resulting permutation corresponds to a stable sort.
 *
 * <p>Usually combining an unstable indirect sort and this method is more efficient than using a stable sort,
 * as most stable sort algorithms require a support array.
 *
 * <p>More precisely, assuming that <code>x[ perm[ i ] ] &le; x[ perm[ i + 1 ] ]</code>, after
 * stabilization we will also have that <code>x[ perm[ i ] ] = x[ perm[ i + 1 ] ]</code> implies
 * <code>perm[ i ] &le; perm[ i + 1 ]</code>.
 *
 * @param perm a permutation array indexing { @code x } so that it is sorted.
 * @param x the sorted array to be stabilized.
 * @param from the index of the first element (inclusive) to be stabilized.
 * @param to the index of the last element (exclusive) to be stabilized.
 */
public static KEY_GENERIC void stabilize( final int perm[], final KEY_GENERIC_TYPE[] x, final int from, final

```

```

int to ) {
    int
    curr = from;
    for( int i = from + 1; i < to; i++ ) {
        if ( x[ perm[ i ] ] != x[ perm[ curr ] ] ) {
            if ( i - curr > 1 ) IntArrays.parallelQuickSort( perm, curr, i );
            curr = i;
        }
    }
    if ( to - curr > 1 ) IntArrays.parallelQuickSort( perm, curr, to );
}

/** Stabilizes a permutation.
 *
 * <p>This method can be used to stabilize the permutation generated by an indirect sorting, assuming that
 * initially the permutation array was in ascending order (e.g., the identity, as usually happens). This method
 * scans the permutation, and for each non-singleton block of elements with the same associated values in { @code
 * x },
 * permutes them in ascending order. The resulting permutation corresponds to a stable sort.
 *
 * <p>Usually combining an unstable indirect sort and this method is more efficient than using a stable sort,
 * as most stable sort algorithms require a support array.
 *
 * <p>More precisely, assuming that <code>x[ perm[ i ] ] &le; x[ perm[ i +
 * 1 ] ]</code>, after
 * stabilization we will also have that <code>x[ perm[ i ] ] = x[ perm[ i + 1 ] ]</code> implies
 * <code>perm[ i ] &le; perm[ i + 1 ]</code>.
 *
 * @param perm a permutation array indexing { @code x } so that it is sorted.
 * @param x the sorted array to be stabilized.
 */
public static KEY_GENERIC void stabilize( final int perm[], final KEY_GENERIC_TYPE[] x ) {
    stabilize( perm, x, 0, perm.length );
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private static KEY_GENERIC int med3( final KEY_GENERIC_TYPE x[], final KEY_GENERIC_TYPE[] y, final
int a, final int b, final int c ) {
    int t;
    final int ab = ( t = KEY_CMP( x[ a ], x[ b ] ) ) == 0 ? KEY_CMP( y[ a ], y[ b ] ) : t;
    final int ac = ( t = KEY_CMP( x[ a ], x[ c ] ) ) == 0 ? KEY_CMP( y[ a ], y[ c ] ) : t;
    final int bc = ( t = KEY_CMP( x[ b ], x[ c ] ) ) == 0 ? KEY_CMP( y[ b ], y[ c ] ) : t;
    return ( ab < 0 ?
        ( bc < 0 ? b : ac < 0 ? c : a ) :
        ( bc > 0 ? b : ac > 0 ? c : a ) );
}

```

```

private static KEY_GENERIC

```

```

void swap( final KEY_GENERIC_TYPE x[], final KEY_GENERIC_TYPE[] y, final int a, final int b ) {
    final KEY_GENERIC_TYPE t = x[ a ];
    final KEY_GENERIC_TYPE u = y[ a ];
    x[ a ] = x[ b ];
    y[ a ] = y[ b ];
    x[ b ] = t;
    y[ b ] = u;
}

```

```

private static KEY_GENERIC void swap( final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y, int
a, int b, final int n ) {
    for ( int i = 0; i < n; i++, a++, b++ ) swap( x, y, a, b );
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

private static KEY_GENERIC void selectionSort( final KEY_GENERIC_TYPE[] a, final
KEY_GENERIC_TYPE[] b, final int from, final int to ) {
    for( int i = from; i < to - 1; i++ ) {
        int m = i, u;
        for( int j = i + 1; j < to; j++ )
            if ( ( u = KEY_CMP( a[ j ], a[ m ] ) ) < 0 || u == 0 && KEY_LESS( b[ j ], b[ m ] ) ) m = j;

        if ( m != i ) {
            KEY_GENERIC_TYPE t = a[ i ];
            a[ i ] = a[ m ];
            a[ m ] = t;
            t = b[ i ];
            b[ i ] = b[ m ];
            b[ m ] = t;
        }
    }
}

```

```

/** Sorts the specified range of elements
of two arrays according to the natural lexicographical
* ascending order using quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249&minus;1265, 1993.
*
* <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of
* elements in the same position in the two provided arrays will be considered a single key, and
* permuted accordingly. In the end, either <code>x[ i ] &lt; x[ i + 1 ]</code> or <code>x[ i ]
* == x[ i + 1 ]</code> and <code>y[ i ] &le; y[ i + 1 ]</code>.
*
* @param x the first array to be sorted.
* @param y the second array to be sorted.

```

* @param from the index of the first element (inclusive) to be sorted.

* @param to the index of the last element (exclusive) to be sorted.

*/

SUPPRESS_WARNINGS_KEY_UNCHECKED

public static KEY_GENERIC void

quickSort(final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y, final int from, final int to) {

final int len = to - from;

if (len < QUICKSORT_NO_REC) {

selectionSort(x, y, from, to);

return;

}

// Choose a partition element, v

int m = from + len / 2;

int l = from;

int n = to - 1;

if (len > QUICKSORT_MEDIAN_OF_9) { // Big arrays, pseudomedian of 9

int s = len / 8;

l = med3(x, y, l, l + s, l + 2 * s);

m = med3(x, y, m - s, m, m + s);

n = med3(x, y, n - 2 * s, n - s, n);

}

m = med3(x, y, l, m, n); // Mid-size, med of 3

final KEY_GENERIC_TYPE v = x[m], w = y[m];

// Establish Invariant: v* (<v)* (>v)* v*

int a = from, b = a, c = to - 1, d = c;

while (true) {

int comparison, t;

while (b <= c && (comparison = (t = KEY_CMP(x[b], v)) == 0 ? KEY_CMP(y[b], w) : t) <= 0) {

if (comparison == 0) swap(x, y, a++, b);

b++;

}

while (c >= b && (comparison = (t = KEY_CMP(x[c], v)) == 0 ? KEY_CMP(y[c], w) : t) >= 0) {

if (comparison == 0) swap(x, y, c, d--);

c--;

}

if (b > c) break;

swap(x, y, b++, c--);

}

// Swap partition elements back to middle

int s;

s = Math.min(a - from, b - a);

swap(x, y, from, b - s, s);

s = Math.min(d - c, to - d - 1);

swap(x, y, b, to - s, s);

// Recursively sort non-partition-elements

if ((s = b - a) > 1) quickSort(x, y, from, from + s);

```

if ( ( s = d - c ) > 1 ) quickSort( x, y, to - s, to );
}

/** Sorts two arrays according to the natural lexicographical ascending order using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, &ldquo;Engineering a Sort Function&rdquo;, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249&minus;1265, 1993.
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of
 * elements in the same position in the two provided arrays will
be considered a single key, and
 * permuted accordingly. In the end, either <code>x[ i ] &lt; x[ i + 1 ]</code> or <code>x[ i ]
 * == x[ i + 1 ]</code> and <code>y[ i ] &le; y[ i + 1 ]</code>.
 *
 * @param x the first array to be sorted.
 * @param y the second array to be sorted.
 */
public static KEY_GENERIC void quickSort( final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y )
{
    ensureSameLength( x, y );
    quickSort( x, y, 0, x.length );
}

protected static class ForkJoinQuickSort2 KEY_GENERIC extends RecursiveAction {
    private static final long serialVersionUID = 1L;
    private final int from;
    private final int to;
    private final KEY_GENERIC_TYPE[] x, y;

    public ForkJoinQuickSort2( final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y, final int from ,
final int to ) {
        this.from = from;
        this.to = to;
        this.x = x;
        this.y = y;
    }

    @Override
    SUPPRESS_WARNINGS_KEY_UNCHECKED
    protected void compute() {
        final KEY_GENERIC_TYPE[] x = this.x;
        final
KEY_GENERIC_TYPE[] y = this.y;
        final int len = to - from;
        if ( len < PARALLEL_QUICKSORT_NO_FORK ) {
            quickSort( x, y, from, to );
        }
        return;
    }
}

```

```

}
// Choose a partition element, v
int m = from + len / 2;
int l = from;
int n = to - 1;
int s = len / 8;
l = med3( x, y, l, l + s, l + 2 * s );
m = med3( x, y, m - s, m, m + s );
n = med3( x, y, n - 2 * s, n - s, n );
m = med3( x, y, l, m, n );
final KEY_GENERIC_TYPE v = x[ m ], w = y[ m ];
// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while ( true ) {
    int comparison, t;
    while ( b <= c && ( comparison = ( t = KEY_CMP( x[ b ], v ) ) == 0 ? KEY_CMP( y[ b ], w ) : t ) <= 0 ) {
        if ( comparison == 0 ) swap( x, y, a++, b );
        b++;
    }
    while ( c >= b && ( comparison = ( t = KEY_CMP( x[ c ], v ) ) == 0 ? KEY_CMP( y[ c ], w ) : t ) >= 0 ) {
        if ( comparison == 0 ) swap( x, y, c, d-- );
        c--;
    }
    if ( b > c ) break;
    swap( x,
y, b++, c-- );
}
// Swap partition elements back to middle
int t;
s = Math.min( a - from, b - a );
swap( x, y, from, b - s, s );
s = Math.min( d - c, to - d - 1 );
swap( x, y, b, to - s, s );
s = b - a;
t = d - c;
// Recursively sort non-partition-elements
if ( s > 1 && t > 1 ) invokeAll( new ForkJoinQuickSort2 KEY_GENERIC( x, y, from, from + s ), new
ForkJoinQuickSort2 KEY_GENERIC( x, y, to - t, to ) );
else if ( s > 1 ) invokeAll( new ForkJoinQuickSort2 KEY_GENERIC( x, y, from, from + s ) );
else invokeAll( new ForkJoinQuickSort2 KEY_GENERIC( x, y, to - t, to ) );
}
}

/** Sorts the specified range of elements of two arrays according to the natural lexicographical
 * ascending order using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, "Engineering a Sort Function", Software: Practice and Experience, 23(11), pages

```

* 1249−1265,

1993.

*

* <p>This method implements a lexicographical sorting of the arguments. Pairs of
* elements in the same position in the two provided arrays will be considered a single key, and
* permuted accordingly. In the end, either <code>x[i] < x[i + 1]</code> or <code>x[i]
* == x[i + 1]</code> and <code>y[i] ≤ y[i + 1]</code>.

*

* <p>This implementation uses a { @link ForkJoinPool } executor service with
* { @link Runtime#availableProcessors() } parallel threads.

*

* @param x the first array to be sorted.

* @param y the second array to be sorted.

* @param from the index of the first element (inclusive) to be sorted.

* @param to the index of the last element (exclusive) to be sorted.

*/

```
public static KEY_GENERIC void parallelQuickSort( final KEY_GENERIC_TYPE[] x, final
KEY_GENERIC_TYPE[] y, final int from, final int to ) {
    if ( to - from < PARALLEL_QUICKSORT_NO_FORK ) quickSort( x, y, from, to );
    final ForkJoinPool pool = new ForkJoinPool(
    Runtime.getRuntime().availableProcessors() );
    pool.invoke( new ForkJoinQuickSort2 KEY_GENERIC( x, y, from, to ) );
    pool.shutdown();
}
```

/** Sorts two arrays according to the natural lexicographical

* ascending order using a parallel quicksort.

*

* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas

* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages

* 1249−1265, 1993.

*

* <p>This method implements a lexicographical sorting of the arguments. Pairs of
* elements in the same position in the two provided arrays will be considered a single key, and
* permuted accordingly. In the end, either <code>x[i] < x[i + 1]</code> or <code>x[i]
* == x[i + 1]</code> and <code>y[i] ≤ y[i + 1]</code>.

*

* <p>This implementation uses a { @link ForkJoinPool } executor service with

* { @link Runtime#availableProcessors() } parallel threads.

*

* @param x the first array to be sorted.

* @param y the second array to be sorted.

*/

```
public static KEY_GENERIC void parallelQuickSort( final KEY_GENERIC_TYPE[] x, final
KEY_GENERIC_TYPE[] y ) {
    ensureSameLength( x, y );
    parallelQuickSort( x, y, 0, x.length );
}
```

```
}
```

```
/** Sorts the specified range of elements according to the natural ascending order using mergesort, using a given pre-filled support array.
```

```
*
```

```
* <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
```

```
* of the sort. Moreover, no support arrays will be allocated.
```

```
* @param a the array to be sorted.
```

```
* @param from the index of the first element (inclusive) to be sorted.
```

```
* @param to the index of the last element (exclusive) to be sorted.
```

```
* @param supp a support array containing at least <code>to</code> elements, and whose entries are identical to those
```

```
* of { @code a } in the specified range.
```

```
*/
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
public static KEY_GENERIC
```

```
void mergeSort( final KEY_GENERIC_TYPE a[], final int from, final int to, final KEY_GENERIC_TYPE supp[] )
```

```
{
```

```
    int len = to - from;
```

```
    // Insertion sort on smallest arrays
```

```
    if ( len < MERGESORT_NO_REC ) {
```

```
        insertionSort( a, from, to );
```

```
        return;
```

```
    }
```

```
    // Recursively sort halves of a into supp
```

```
    final int mid = ( from + to ) >>> 1;
```

```
    mergeSort( supp, from, mid, a );
```

```
    mergeSort( supp, mid, to, a );
```

```
    // If list is already sorted, just copy from supp to a. This is an
```

```
    // optimization that results in faster sorts for nearly ordered lists.
```

```
    if ( KEY_LESSEQ( supp[ mid - 1 ], supp[ mid ] ) ) {
```

```
        System.arraycopy( supp, from, a, from, len );
```

```
        return;
```

```
    }
```

```
    // Merge sorted halves (now in supp) into a
```

```
    for( int i = from, p = from, q = mid; i < to; i++ ) {
```

```
        if ( q >= to || p < mid && KEY_LESSEQ( supp[ p ], supp[ q ] ) ) a[ i ] = supp[ p++ ];
```

```
        else a[ i ] = supp[ q++ ];
```

```
    }
```

```
}
```

```

/** Sorts the specified range of elements according to the natural ascending order using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated by this method.
 *
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static KEY_GENERIC void mergeSort( final KEY_GENERIC_TYPE a[], final int from, final int to ) {
    mergeSort( a, from, to, a.clone() );
}

/** Sorts an array according to the natural ascending order using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated by this method.
 *
 * @param a the array to be sorted.
 */
public static KEY_GENERIC void mergeSort( final KEY_GENERIC_TYPE a[] ) {
    mergeSort( a, 0, a.length );
}

/** Sorts the specified range of elements
    according to the order induced by the specified
    * comparator using mergesort, using a given pre-filled support array.
    *
    * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
    * of the sort. Moreover, no support arrays will be allocated.
    *
    * @param a the array to be sorted.
    * @param from the index of the first element (inclusive) to be sorted.
    * @param to the index of the last element (exclusive) to be sorted.
    * @param comp the comparator to determine the sorting order.
    * @param supp a support array containing at least <code>to</code> elements, and whose entries are identical to
    those
    * of { @code a } in the specified range.
    */
public static KEY_GENERIC void mergeSort( final KEY_GENERIC_TYPE a[], final int from, final int to,
    KEY_COMPARATOR KEY_GENERIC comp, final KEY_GENERIC_TYPE supp[] ) {
    int len = to - from;

    // Insertion sort on smallest arrays
    if ( len < MERGESORT_NO_REC ) {
        insertionSort( a, from, to,

```

```

comp );
return;
}

// Recursively sort halves of a into supp
final int mid = ( from + to ) >>> 1;
mergeSort( supp, from, mid, comp, a );
mergeSort( supp, mid, to, comp, a );

// If list is already sorted, just copy from supp to a. This is an
// optimization that results in faster sorts for nearly ordered lists.
if ( comp.compare( supp[ mid - 1 ], supp[ mid ] ) <= 0 ) {
    System.arraycopy( supp, from, a, from, len );
    return;
}

// Merge sorted halves (now in supp) into a
for( int i = from, p = from, q = mid; i < to; i++ ) {
    if ( q >= to || p < mid && comp.compare( supp[ p ], supp[ q ] ) <= 0 ) a[ i ] = supp[ p++ ];
    else a[ i ] = supp[ q++ ];
}
}

/** Sorts the specified range of elements according to the order induced by the specified
 * comparator using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated
by this method.
 *
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void mergeSort( final KEY_GENERIC_TYPE a[], final int from, final int to,
KEY_COMPARATOR KEY_GENERIC comp ) {
    mergeSort( a, from, to, comp, a.clone() );
}

/** Sorts an array according to the order induced by the specified
 * comparator using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated by this method.
 *
 * @param a the array to be sorted.
 * @param comp the comparator to determine the sorting order.

```

```

*/
public static KEY_GENERIC void mergeSort( final KEY_GENERIC_TYPE a[], KEY_COMPARATOR
KEY_GENERIC comp ) {
    mergeSort( a, 0, a.length, comp );
}

#if
! #keyclass(Boolean)

/**
 * Searches a range of the specified array for the specified value using
 * the binary search algorithm. The range must be sorted prior to making this call.
 * If it is not sorted, the results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the array to be searched.
 * @param from the index of the first element (inclusive) to be searched.
 * @param to the index of the last element (exclusive) to be searched.
 * @param key the value to be searched for.
 * @return index of the search key, if it is contained in the array;
 *         otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
 *         point</i> is defined as the the point at which the value would
 *         be inserted into the array: the index of the first
 *         element greater than the key, or the length of the array, if all
 *
 *         elements in the array are less than the specified key. Note
 *         that this guarantees that the return value will be >= 0 if
 *         and only if the key is found.
 * @see java.util.Arrays
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int binarySearch( final KEY_GENERIC_TYPE[] a, int from, int to, final
KEY_GENERIC_TYPE key ) {
    KEY_GENERIC_TYPE midVal;
    to--;
    while (from <= to) {
        final int mid = (from + to) >>> 1;
        midVal = a[ mid ];
#if #keys(primitive)
        if (midVal < key) from = mid + 1;
        else if (midVal > key) to = mid - 1;
        else return mid;
#else
        final int cmp = ((Comparable KEY_SUPER_GENERIC)midVal).compareTo( key );
        if ( cmp < 0 ) from = mid + 1;
        else if (cmp > 0) to = mid - 1;
        else return mid;
#endif
}

```

```

    }
    return -( from + 1 );
}

/**
 * Searches an array for the specified value using
 * the binary search algorithm. The range must be sorted prior to making this call.
 * If it is not sorted, the
results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the array to be searched.
 * @param key the value to be searched for.
 * @return index of the search key, if it is contained in the array;
 *         otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
 *         point</i> is defined as the the point at which the value would
 *         be inserted into the array: the index of the first
 *         element greater than the key, or the length of the array, if all
 *         elements in the array are less than the specified key. Note
 *         that this guarantees that the return value will be  $\geq 0$  if
 *         and only if the key is found.
 * @see java.util.Arrays
 */
public static KEY_GENERIC int binarySearch( final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE
key ) {
    return binarySearch( a, 0, a.length, key );
}

/**

 * Searches a range of the specified array for the specified value using
 * the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
 * If it is not sorted, the results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the array to be searched.
 * @param from the index of the first element (inclusive) to be searched.
 * @param to the index of the last element (exclusive) to be searched.
 * @param key the value to be searched for.
 * @param c a comparator.
 * @return index of the search key, if it is contained in the array;
 *         otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
 *         point</i> is defined as the the point at which the value would
 *         be inserted into the array: the index of the first
 *         element greater than
the key, or the length of the array, if all
 *         elements in the array are less than the specified key. Note

```

```

*      that this guarantees that the return value will be &ge; 0 if
*      and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC int binarySearch( final KEY_GENERIC_TYPE[] a, int from, int to, final
KEY_GENERIC_TYPE key, final KEY_COMPARATOR KEY_GENERIC c ) {
    KEY_GENERIC_TYPE midVal;
    to--;
    while (from <= to) {
        final int mid = (from + to) >>> 1;
        midVal = a[ mid ];
        final int cmp = c.compare( midVal, key );
        if ( cmp < 0 ) from = mid + 1;
        else if (cmp > 0) to = mid - 1;
        else return mid; // key found
    }
    return -( from + 1 );
}

/**
* Searches an array for the specified value using
* the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
* If it is not sorted, the results are undefined. If the range contains
multiple elements with
* the specified value, there is no guarantee which one will be found.
*
* @param a the array to be searched.
* @param key the value to be searched for.
* @param c a comparator.
* @return index of the search key, if it is contained in the array;
* otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
* point</i> is defined as the the point at which the value would
* be inserted into the array: the index of the first
* element greater than the key, or the length of the array, if all
* elements in the array are less than the specified key. Note
* that this guarantees that the return value will be &ge; 0 if
* and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC int binarySearch( final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE
key, final KEY_COMPARATOR KEY_GENERIC c ) {
    return binarySearch( a, 0,
a.length, key, c );
}

#if #keys(primitive)

```

```

/** The size of a digit used during radix sort (must be a power of 2). */
private static final int DIGIT_BITS = 8;
/** The mask to extract a digit of { @link #DIGIT_BITS} bits. */
private static final int DIGIT_MASK = ( 1 << DIGIT_BITS ) - 1;
/** The number of digits per element. */
private static final int DIGITS_PER_ELEMENT = KEY_CLASS.SIZE / DIGIT_BITS;
private static final int RADIXSORT_NO_REC = 1024;
private static final int PARALLEL_RADIXSORT_NO_FORK = 1024;

/** This method fixes negative numbers so that the combination exponent/significand is lexicographically sorted. */
#if #keyclass(Double)
private static final long fixDouble( final double d ) {
    final long l = Double.doubleToLongBits( d );
    return l >= 0 ? l : l ^ 0x7FFFFFFFFFFFFFFFL;
}
#elif #keyclass(Float)
private static final int fixFloat( final float f ) {
    final int i = Float.floatToIntBits( f );
    return i >= 0 ? i : i ^ 0x7FFFFFFF;
}
#endif

/** Sorts
the specified array using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more than 10000 elements), but it can only
* sort in ascending order.
*
* @param a the array to be sorted.
*/
public static void radixSort( final KEY_TYPE[] a ) {
    radixSort( a, 0, a.length );
}

/** Sorts the specified range of an array using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more than 10000 elements), but it can
only
* sort in ascending order.

```

```

*
* @param a the array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/
public static void radixSort( final KEY_TYPE[] a, final int from, final int to ) {
    if ( to - from < RADIXSORT_NO_REC ) {
        quickSort( a, from, to );
        return;
    }

    final int maxLevel = DIGITS_PER_ELEMENT - 1;

    final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * ( DIGITS_PER_ELEMENT - 1 ) + 1;
    int stackPos = 0;
    final int[] offsetStack = new int[ stackSize ];
    final int[] lengthStack = new int[ stackSize ];
    final int[] levelStack = new int[ stackSize ];

    offsetStack[ stackPos ] = from;
    lengthStack[ stackPos ] = to - from;
    levelStack[ stackPos++ ] = 0;

    final int[] count = new int[ 1 << DIGIT_BITS ];
    final int[] pos = new int[ 1 << DIGIT_BITS ];

    while( stackPos > 0 ) {
        final int first = offsetStack[ --stackPos ];
        final int length
= lengthStack[ stackPos ];
        final int level = levelStack[ stackPos ];
        #if #keyclass(Character)
        final int signMask = 0;
        #else
        final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
        #endif
        final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

        // Count keys.
        for( int i = first + length; i-- != first; ) count[ INT( KEY2LEXINT( a[ i ] ) >>> shift & DIGIT_MASK ^ signMask )
]++;
        // Compute cumulative distribution
        int lastUsed = -1;
        for ( int i = 0, p = first; i < 1 << DIGIT_BITS; i++ ) {
            if ( count[ i ] != 0 ) lastUsed = i;
            pos[ i ] = ( p += count[ i ] );
        }
    }

```

```

final int end = first + length - count[ lastUsed ];
// i moves through the start of each block
for( int i = first, c = -1, d; i <= end; i += count[ c ], count[ c ] = 0 ) {
    KEY_TYPE t = a[ i ];
    c = INT( KEY2LEXINT( t ) >>> shift & DIGIT_MASK ^ signMask );

    if
(i < end ) { // When all slots are OK, the last slot is necessarily OK.
    while ( ( d = --pos[ c ] ) > i ) {
        final KEY_TYPE z = t;
        t = a[ d ];
        a[ d ] = z;
        c = INT( KEY2LEXINT( t ) >>> shift & DIGIT_MASK ^ signMask );
    }
    a[ i ] = t;
}

if ( level < maxLevel && count[ c ] > 1 ) {
    if ( count[ c ] < RADIXSORT_NO_REC ) quickSort( a, i, i + count[ c ] );
    else {
        offsetStack[ stackPos ] = i;
        lengthStack[ stackPos ] = count[ c ];
        levelStack[ stackPos++ ] = level + 1;
    }
}
}
}
}

protected final static class Segment {
    protected final int offset, length, level;
    protected Segment( final int offset, final int length, final int level ) {
        this.offset = offset;
        this.length = length;
        this.level = level;
    }

    @Override
    public String toString() {
        return "Segment [offset=" + offset + ", length=" + length + ", level=" + level + " ]";
    }
}

protected final static Segment POISON_PILL = new Segment(
-1, -1, -1 );

```

```

/** Sorts the specified range of an array using parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static void parallelRadixSort( final KEY_TYPE[] a, final int from, final int to ) {
    if ( to - from < PARALLEL_RADIXSORT_NO_FORK ) {
        quickSort( a, from, to );
        return;
    }
    final int maxLevel = DIGITS_PER_ELEMENT - 1;
    final LinkedBlockingQueue<Segment> queue = new LinkedBlockingQueue<Segment>();
    queue.add( new Segment( from, to - from, 0 ) );
    final AtomicInteger queueSize = new
AtomicInteger( 1 );
    final int numberOfThreads = Runtime.getRuntime().availableProcessors();
    final ExecutorService executorService = Executors.newFixedThreadPool( numberOfThreads,
Executors.defaultThreadFactory() );
    final ExecutorCompletionService<Void> executorCompletionService = new ExecutorCompletionService<Void>(
executorService );

    for( int i = numberOfThreads; i-- != 0; ) executorCompletionService.submit( new Callable<Void>() {
        public Void call() throws Exception {
            final int[] count = new int[ 1 << DIGIT_BITS ];
            final int[] pos = new int[ 1 << DIGIT_BITS ];

            for(;;) {
                if ( queueSize.get() == 0 ) for( int i = numberOfThreads; i-- != 0; ) queue.add( POISON_PILL );
                final Segment segment = queue.take();
                if ( segment == POISON_PILL ) return null;

                final int first = segment.offset;
                final int length = segment.length;
                final int level = segment.level;

                #if #keyclass(Character)
                    final int signMask = 0;
                #else
                    final int signMask
= level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
                #endif

                final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the

```

shift that extract the right byte from a key

```
// Count keys.
for( int i = first + length; i-- != first; ) count[ INT( KEY2LEXINT( a[ i ] ) >>> shift & DIGIT_MASK ^ signMask )
]++;
// Compute cumulative distribution
int lastUsed = -1;
for( int i = 0, p = first; i < 1 << DIGIT_BITS; i++ ) {
    if ( count[ i ] != 0 ) lastUsed = i;
    pos[ i ] = ( p += count[ i ] );
}

final int end = first + length - count[ lastUsed ];
// i moves through the start of each block
for( int i = first, c = -1, d; i <= end; i += count[ c ], count[ c ] = 0 ) {
    KEY_TYPE t = a[ i ];
    c = INT( KEY2LEXINT( t ) >>> shift & DIGIT_MASK ^ signMask );
    if ( i < end ) {
        while( ( d = --pos[ c ] ) > i ) {
            final KEY_TYPE z = t;
            t = a[ d ];
            a[ d ] =
z;
            c = INT( KEY2LEXINT( t ) >>> shift & DIGIT_MASK ^ signMask );
        }
        a[ i ] = t;
    }

    if ( level < maxLevel && count[ c ] > 1 ) {
        if ( count[ c ] < PARALLEL_RADIXSORT_NO_FORK ) quickSort( a, i, i + count[ c ] );
        else {
            queueSize.incrementAndGet();
            queue.add( new Segment( i, count[ c ], level + 1 ) );
        }
    }
    queueSize.decrementAndGet();
}
});
```

```
Throwable problem = null;
for( int i = numberOfThreads; i-- != 0; )
    try {
        executorCompletionService.take().get();
    }
    catch( Exception e ) {
        problem = e.getCause(); // We keep only the last one. They will be logged anyway.
```

```

    }

    executorService.shutdown();
    if ( problem != null ) throw ( problem instanceof RuntimeException ) ? (RuntimeException)problem : new
RuntimeException( problem );
}

/** Sorts the specified array using parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy,
Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param a the array to be sorted.
 */
public static void parallelRadixSort( final KEY_TYPE[] a ) {
    parallelRadixSort( a, 0, a.length );
}

/** Sorts the specified array using indirect radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.
 *
 * <p>This implementation will allocate, in the stable case, a
support array as large as <code>perm</code> (note that the stable
 * version is slightly faster).
 *
 * @param perm a permutation array indexing <code>a</code>.
 * @param a the array to be sorted.
 * @param stable whether the sorting algorithm should be stable.
 */
public static void radixSortIndirect( final int[] perm, final KEY_TYPE[] a, final boolean stable ) {
    radixSortIndirect( perm, a, 0, perm.length, stable );
}

/** Sorts the specified array using indirect radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must

```

```

* be exactly the numbers in the interval <code>[0..perm.length)</code> will be permuted so that
* <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.
*
* <p>This implementation
will allocate, in the stable case, a support array as large as <code>perm</code> (note that the stable
* version is slightly faster).
*
* @param perm a permutation array indexing <code>a</code>.
* @param a the array to be sorted.
* @param from the index of the first element of <code>perm</code> (inclusive) to be permuted.
* @param to the index of the last element of <code>perm</code> (exclusive) to be permuted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void radixSortIndirect( final int[] perm, final KEY_TYPE[] a, final int from, final int to, final boolean
stable ) {
    if ( to - from < RADIXSORT_NO_REC ) {
        insertionSortIndirect( perm, a, from, to );
        return;
    }

    final int maxLevel = DIGITS_PER_ELEMENT - 1;

    final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * ( DIGITS_PER_ELEMENT - 1 ) + 1;
    int stackPos = 0;
    final int[] offsetStack = new int[ stackSize ];
    final int[] lengthStack = new int[ stackSize ];
    final
int[] levelStack = new int[ stackSize ];

    offsetStack[ stackPos ] = from;
    lengthStack[ stackPos ] = to - from;
    levelStack[ stackPos++ ] = 0;

    final int[] count = new int[ 1 << DIGIT_BITS ];
    final int[] pos = new int[ 1 << DIGIT_BITS ];
    final int[] support = stable ? new int[ perm.length ] : null;

    while( stackPos > 0 ) {
        final int first = offsetStack[ --stackPos ];
        final int length = lengthStack[ stackPos ];
        final int level = levelStack[ stackPos ];
        #if #keyclass(Character)
        final int signMask = 0;
        #else
        final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
        #endif

        final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the

```

shift that extract the right byte from a key

```
// Count keys.
for( int i = first + length; i-- != first; ) count[ INT( KEY2LEXINT( a[ perm[ i ] ] ) >>> shift & DIGIT_MASK ^
signMask ) ]++;
// Compute cumulative distribution
int lastUsed = -1;
for
( int i = 0, p = stable ? 0 : first; i < 1 << DIGIT_BITS; i++ ) {
    if ( count[ i ] != 0 ) lastUsed = i;
    pos[ i ] = ( p += count[ i ] );
}

if ( stable ) {
    for( int i = first + length; i-- != first; ) support[ --pos[ INT( KEY2LEXINT( a[ perm[ i ] ] ) >>> shift &
DIGIT_MASK ^ signMask ) ] ] = perm[ i ];
    System.arraycopy( support, 0, perm, first, length );
    for( int i = 0, p = first; i <= lastUsed; i++ ) {
        if ( level < maxLevel && count[ i ] > 1 ) {
            if ( count[ i ] < RADIXSORT_NO_REC ) insertionSortIndirect( perm, a, p, p + count[ i ] );
            else {
                offsetStack[ stackPos ] = p;
                lengthStack[ stackPos ] = count[ i ];
                levelStack[ stackPos++ ] = level + 1;
            }
        }
        p += count[ i ];
    }
    java.util.Arrays.fill( count, 0 );
}
else {
    final int end = first + length - count[ lastUsed ];
    // i moves through the start of each block
    for( int i = first, c = -1, d; i <= end; i += count[ c ], count[ c ] = 0 ) {
        int
t = perm[ i ];
        c = INT( KEY2LEXINT( a[ t ] ) >>> shift & DIGIT_MASK ^ signMask );

        if ( i < end ) { // When all slots are OK, the last slot is necessarily OK.
            while( ( d = --pos[ c ] ) > i ) {
                final int z = t;
                t = perm[ d ];
                perm[ d ] = z;
                c = INT( KEY2LEXINT( a[ t ] ) >>> shift & DIGIT_MASK ^ signMask );
            }
            perm[ i ] = t;
        }
    }
}
```

```

if ( level < maxLevel && count[ c ] > 1 ) {
    if ( count[ c ] < RADIXSORT_NO_REC ) insertionSortIndirect( perm, a, i, i + count[ c ] );
    else {
        offsetStack[ stackPos ] = i;
        lengthStack[ stackPos ] = count[ c ];
        levelStack[ stackPos++ ] = level + 1;
    }
}
}
}
}
}

/** Sorts the specified range of an array using parallel indirect radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27
 (1993).
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param perm a permutation array indexing <code>a</code>.
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param stable whether the sorting algorithm should be stable.
 */
public static void parallelRadixSortIndirect( final int perm[], final KEY_TYPE[] a, final int from, final int to, final
boolean stable ) {
    if ( to - from < PARALLEL_RADIXSORT_NO_FORK ) {
        radixSortIndirect( perm, a, from, to, stable );
        return;
    }
    final int maxLevel = DIGITS_PER_ELEMENT - 1;
    final
    LinkedBlockingQueue<Segment> queue = new LinkedBlockingQueue<Segment>();
    queue.add( new Segment( from, to - from, 0 ) );
    final AtomicInteger queueSize = new AtomicInteger( 1 );
    final int numberOfThreads = Runtime.getRuntime().availableProcessors();
    final ExecutorService executorService = Executors.newFixedThreadPool( numberOfThreads,
    Executors.defaultThreadFactory() );
    final ExecutorCompletionService<Void> executorCompletionService = new ExecutorCompletionService<Void>(
    executorService );
    final int[] support = stable ? new int[ perm.length ] : null;

```

```

for( int i = numberOfThreads; i-- != 0; ) executorCompletionService.submit( new Callable<Void>() {
public Void call() throws Exception {
final int[] count = new int[ 1 << DIGIT_BITS ];
final int[] pos = new int[ 1 << DIGIT_BITS ];

for(;;) {
if ( queueSize.get() == 0 ) for( int i = numberOfThreads; i-- != 0; ) queue.add( POISON_PILL );
final Segment segment = queue.take();
if ( segment == POISON_PILL
) return null;

final int first = segment.offset;
final int length = segment.length;
final int level = segment.level;

#if #keyclass(Character)
final int signMask = 0;
#else
final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
#endif
final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

// Count keys.
for( int i = first + length; i-- != first; ) count[ INT( KEY2LEXINT( a[ perm[ i ] ] ) >>> shift & DIGIT_MASK ^
signMask ) ]++;
// Compute cumulative distribution
int lastUsed = -1;
for ( int i = 0, p = first; i < 1 << DIGIT_BITS; i++ ) {
if ( count[ i ] != 0 ) lastUsed = i;
pos[ i ] = ( p += count[ i ] );
}

if ( stable ) {
for( int i = first + length; i-- != first; ) support[ --pos[ INT( KEY2LEXINT( a[ perm[ i ] ] ) >>> shift &
DIGIT_MASK ^ signMask ) ] ] = perm[ i ];
System.arraycopy(
support, first, perm, first, length );
for( int i = 0, p = first; i <= lastUsed; i++ ) {
if ( level < maxLevel && count[ i ] > 1 ) {
if ( count[ i ] < PARALLEL_RADIXSORT_NO_FORK ) radixSortIndirect( perm, a, p, p + count[ i ], stable );
else {
queueSize.incrementAndGet();
queue.add( new Segment( p, count[ i ], level + 1 ) );
}
}
}
}
}

```

```

    p += count[ i ];
  }
  java.util.Arrays.fill( count, 0 );
}
else {
  final int end = first + length - count[ lastUsed ];
  // i moves through the start of each block
  for( int i = first, c = -1, d; i <= end; i += count[ c ], count[ c ] = 0 ) {
    int t = perm[ i ];
    c = INT( KEY2LEXINT( a[ t ] ) >>> shift & DIGIT_MASK ^ signMask );

    if ( i < end ) { // When all slots are OK, the last slot is necessarily OK.
      while( ( d = --pos[ c ] ) > i ) {
        final int z = t;
        t = perm[ d ];
        perm[ d ] = z;
        c
      = INT( KEY2LEXINT( a[ t ] ) >>> shift & DIGIT_MASK ^ signMask );
    }
    perm[ i ] = t;
  }

  if ( level < maxLevel && count[ c ] > 1 ) {
    if ( count[ c ] < PARALLEL_RADIXSORT_NO_FORK ) radixSortIndirect( perm, a, i, i + count[ c ], stable );
    else {
      queueSize.incrementAndGet();
      queue.add( new Segment( i, count[ c ], level + 1 ) );
    }
  }
}
}
}
queueSize.decrementAndGet();
}
}
}
});

```

```

Throwable problem = null;
for( int i = numberOfThreads; i-- != 0; )
  try {
    executorCompletionService.take().get();
  }
  catch( Exception e ) {
    problem = e.getCause(); // We keep only the last one. They will be logged anyway.
  }

```

```

executorService.shutdown();
if ( problem != null ) throw ( problem instanceof RuntimeException ) ? (RuntimeException)problem : new
RuntimeException( problem );

```

```

}

/** Sorts the specified array using parallel indirect radix sort.
 *
 * <p>The sorting algorithm is
 a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param perm a permutation array indexing <code>a</code>.
 * @param a the array to be sorted.
 * @param stable whether the sorting algorithm should be stable.
 */
public static void parallelRadixSortIndirect( final int perm[], final KEY_TYPE[] a, final boolean stable ) {
    parallelRadixSortIndirect( perm, a, 0, a.length, stable );
}

```

```

/** Sorts the specified pair of arrays lexicographically using radix sort.
 *
 * <p>The sorting algorithm is a
 tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of elements
 * in the same position in the two provided arrays will be considered a single key, and permuted
 * accordingly. In the end, either <code>a[ i ] &lt; a[ i + 1 ]</code> or <code>a[ i ] == a[ i + 1 ]</code> and
 <code>b[ i ] &le; b[ i + 1 ]</code>.
 *
 * @param a the first array to be sorted.
 * @param b the second array to be sorted.
 */
public static void radixSort( final KEY_TYPE[] a, final KEY_TYPE[] b ) {
    ensureSameLength( a, b );
    radixSort( a, b, 0, a.length );
}

```

```

/** Sorts the specified range of elements of two arrays using radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix
 sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of elements

```

```

* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[ i ] &lt; a[ i + 1 ]</code> or <code>a[ i ] == a[ i + 1 ]</code> and
<code>b[ i ] &le; b[ i + 1 ]</code>.
*
* @param a the first array to be sorted.
* @param b the second array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/
public static void radixSort( final KEY_TYPE[] a, final KEY_TYPE[] b, final int from, final int to ) {
    if ( to - from < RADIXSORT_NO_REC ) {
        selectionSort( a, b, from, to );
        return;
    }

    final int layers = 2;
    final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;

    final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * (
layers * DIGITS_PER_ELEMENT - 1 ) + 1;
    int stackPos = 0;
    final int[] offsetStack = new int[ stackSize ];
    final int[] lengthStack = new int[ stackSize ];
    final int[] levelStack = new int[ stackSize ];

    offsetStack[ stackPos ] = from;
    lengthStack[ stackPos ] = to - from;
    levelStack[ stackPos++ ] = 0;

    final int[] count = new int[ 1 << DIGIT_BITS ];
    final int[] pos = new int[ 1 << DIGIT_BITS ];

    while( stackPos > 0 ) {
        final int first = offsetStack[ --stackPos ];
        final int length = lengthStack[ stackPos ];
        final int level = levelStack[ stackPos ];
        #if #keyclass(Character)
            final int signMask = 0;
        #else
            final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
        #endif

        final KEY_TYPE[] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
        final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

        // Count keys.
        for( int

```

```
i = first + length; i-- != first; ) count[ INT( KEY2LEXINT( k[ i ] ) >>> shift & DIGIT_MASK ^ signMask ) ]++;
```

```
// Compute cumulative distribution
```

```
int lastUsed = -1;
```

```
for ( int i = 0, p = first; i < 1 << DIGIT_BITS; i++ ) {
```

```
    if ( count[ i ] != 0 ) lastUsed = i;
```

```
    pos[ i ] = ( p += count[ i ] );
```

```
}
```

```
final int end = first + length - count[ lastUsed ];
```

```
// i moves through the start of each block
```

```
for( int i = first, c = -1, d; i <= end; i += count[ c ], count[ c ] = 0 ) {
```

```
    KEY_TYPE t = a[ i ];
```

```
    KEY_TYPE u = b[ i ];
```

```
    c = INT( KEY2LEXINT( k[ i ] ) >>> shift & DIGIT_MASK ^ signMask );
```

```
    if ( i < end ) { // When all slots are OK, the last slot is necessarily OK.
```

```
        while( ( d = --pos[ c ] ) > i ) {
```

```
            c = INT( KEY2LEXINT( k[ d ] ) >>> shift & DIGIT_MASK ^ signMask );
```

```
            KEY_TYPE z = t;
```

```
            t = a[ d ];
```

```
            a[ d ] = z;
```

```
            z = u;
```

```
            u = b[ d ];
```

```
            b[ d ] = z;
```

```
        }
```

```
        a[ i ] = t;
```

```
        b[ i ] = u;
```

```
    }
```

```
    if ( level < maxLevel && count[
```

```
c ] > 1 ) {
```

```
        if ( count[ c ] < RADIXSORT_NO_REC ) selectionSort( a, b, i, i + count[ c ] );
```

```
        else {
```

```
            offsetStack[ stackPos ] = i;
```

```
            lengthStack[ stackPos ] = count[ c ];
```

```
            levelStack[ stackPos++ ] = level + 1;
```

```
        }
```

```
    }
```

```
}
```

```
}
```

```
}
```

```
/** Sorts the specified range of elements of two arrays using a parallel radix sort.
```

```
*/
```

```
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
```

* McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).

*

* <p>This method implements a lexicographical sorting of the arguments. Pairs of elements
* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
<code>b[i] ≤ b[i + 1]</code>.

*

* <p>This implementation uses a pool of {[@link Runtime#availableProcessors\(\)](#)} threads.

*

* @param a the first array to be sorted.

* @param b the second array to be sorted.

* @param from the index of the first element (inclusive) to be sorted.

* @param to the index of the last element (exclusive) to be sorted.

*/

```
public static void parallelRadixSort( final KEY_TYPE[] a, final KEY_TYPE[] b, final int from, final int to ) {
    if ( to - from < PARALLEL_RADIXSORT_NO_FORK ) {
        quickSort( a, b, from, to );
        return;
    }
    final int layers = 2;
    if ( a.length != b.length ) throw new IllegalArgumentException( "Array size mismatch." );
    final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;
    final LinkedBlockingQueue<Segment> queue = new LinkedBlockingQueue<Segment>();
    queue.add( new Segment( from, to - from, 0 ) );
    final AtomicInteger queueSize = new AtomicInteger( 1 );
    final int numberOfThreads = Runtime.getRuntime().availableProcessors();
    final ExecutorService executorService = Executors.newFixedThreadPool( numberOfThreads,
        Executors.defaultThreadFactory()
    );
    final ExecutorCompletionService<Void> executorCompletionService = new ExecutorCompletionService<Void>(
        executorService );
    for ( int i = numberOfThreads; i-- != 0; )
        executorCompletionService.submit( new Callable<Void>() {
            public Void call() throws Exception {
                final int[] count = new int[ 1 << DIGIT_BITS ];
                final int[] pos = new int[ 1 << DIGIT_BITS ];
                for ( ;; ) {
                    if ( queueSize.get() == 0 ) for ( int i = numberOfThreads; i-- != 0; )
                        queue.add( POISON_PILL );
                    final Segment segment = queue.take();
                    if ( segment == POISON_PILL ) return null;
                    final int first = segment.offset;
                    final int length = segment.length;
                    final int level = segment.level;
                    final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
                    final KEY_TYPE[] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
                    final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS;
```

```

// Count keys.
for ( int i = first + length; i-- != first; )
    count[ INT( KEY2LEXINT( k[ i ] ) >>> shift & DIGIT_MASK ^ signMask ) ]++;
// Compute cumulative distribution
int lastUsed = -1;
for ( int i = 0, p = first; i < 1 << DIGIT_BITS; i++ ) {
    if ( count[ i ] != 0 ) lastUsed = i;
    pos[ i ] = ( p += count[ i ] );
}
final int end = first + length - count[ lastUsed ];
for ( int i = first, c = -1, d; i <= end; i += count[ c ], count[ c ] = 0 ) {
    KEY_TYPE t = a[ i ];
    KEY_TYPE u = b[ i ];
    c = INT( KEY2LEXINT( k[ i ] ) >>> shift & DIGIT_MASK ^ signMask );
    if ( i < end ) { // When all slots are OK, the last slot is necessarily OK.
        while ( ( d = --pos[ c ] ) > i ) {
            c = INT( KEY2LEXINT( k[ d ] ) >>> shift & DIGIT_MASK ^ signMask );
            final KEY_TYPE z = t;
            final KEY_TYPE w = u;
            t = a[ d ];
            u = b[ d ];
            a[ d ] = z;
            b[ d ]
= w;
        }
        a[ i ] = t;
        b[ i ] = u;
    }
    if ( level < maxLevel && count[ c ] > 1 ) {
        if ( count[ c ] < PARALLEL_RADIXSORT_NO_FORK ) quickSort( a, b, i, i + count[ c ] );
        else {
            queueSize.incrementAndGet();
            queue.add( new Segment( i, count[ c ], level + 1 ) );
        }
    }
    queueSize.decrementAndGet();
}
} );
Throwable problem = null;
for ( int i = numberOfThreads; i-- != 0; )
    try {
        executorCompletionService.take().get();
    }
    catch ( Exception e ) {
        problem = e.getCause(); // We keep only the last one. They will be logged anyway.
    }

```

```

    }
    executorService.shutdown();
    if ( problem != null ) throw ( problem instanceof RuntimeException ) ? (RuntimeException)problem : new
RuntimeException( problem );
}

/** Sorts two arrays using a parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy,
 * &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the arguments. Pairs of elements
 * in the same position in the two provided arrays will be considered a single key, and permuted
 * accordingly. In the end, either <code>a[ i ] &lt; a[ i + 1 ]</code> or <code>a[ i ] == a[ i + 1 ]</code> and
 * <code>b[ i ] &le; b[ i + 1 ]</code>.
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param a the first array to be sorted.
 * @param b the second array to be sorted.
 */
public static void parallelRadixSort( final KEY_TYPE[] a, final KEY_TYPE[] b ) {
    ensureSameLength( a, b );
    parallelRadixSort( a, b, 0, a.length );
}

private static KEY_GENERIC void insertionSortIndirect( final int[] perm, final KEY_TYPE[] a, final
KEY_TYPE[] b, final int from, final int to ) {
    for ( int i = from; ++i < to; ) {
        int t = perm[
i ];
        int j = i;
        for ( int u = perm[ j - 1 ]; KEY_LESS( a[ t ], a[ u ] ) || KEY_CMP_EQ( a[ t ], a[ u ] ) && KEY_LESS( b[ t ], b[ u ]
); u = perm[ --j - 1 ] ) {
            perm[ j ] = u;
            if ( from == j - 1 ) {
                --j;
                break;
            }
        }
        perm[ j ] = t;
    }
}

/** Sorts the specified pair of arrays lexicographically using indirect radix sort.

```

```

*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
*
* <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.
*
* <p>This implementation will allocate, in the stable case, a further support array as large as <code>perm</code>
(note that the stable
* version is slightly
faster).
*
* @param perm a permutation array indexing <code>a</code>.
* @param a the array to be sorted.
* @param b the second array to be sorted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void radixSortIndirect( final int[] perm, final KEY_TYPE[] a, final KEY_TYPE[] b, final boolean
stable ) {
    ensureSameLength( a, b );
    radixSortIndirect( perm, a, b, 0, a.length, stable );
}

/** Sorts the specified pair of arrays lexicographically using indirect radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
*
* <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>a[ perm[ i ] ] &le; a[ perm[ i +
1 ] ]</code>.
*
* <p>This implementation will allocate, in the stable case, a further support array as large as <code>perm</code>
(note that the stable
* version is slightly faster).
*
* @param perm a permutation array indexing <code>a</code>.
* @param a the array to be sorted.
* @param b the second array to be sorted.
* @param from the index of the first element of <code>perm</code> (inclusive) to be permuted.
* @param to the index of the last element of <code>perm</code> (exclusive) to be permuted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void radixSortIndirect( final int[] perm, final KEY_TYPE[] a, final KEY_TYPE[] b, final int from,
final int to, final boolean stable ) {
    if ( to - from < RADIXSORT_NO_REC ) {

```

```

insertionSortIndirect( perm, a, b, from, to );
return;
}

final int layers = 2;
final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;

final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * ( layers
* DIGITS_PER_ELEMENT - 1 ) + 1;
int stackPos = 0;
final int[] offsetStack = new int[ stackSize ];
final int[] lengthStack = new int[ stackSize ];
final int[] levelStack = new int[ stackSize ];

offsetStack[ stackPos ] = from;
lengthStack[ stackPos ] = to - from;
levelStack[ stackPos++ ] = 0;

final int[] count = new int[ 1 << DIGIT_BITS ];
final int[] pos = new int[ 1 << DIGIT_BITS ];
final int[] support = stable ? new int[ perm.length ] : null;

while( stackPos > 0 ) {
    final int first = offsetStack[ --stackPos ];
    final int length = lengthStack[ stackPos ];
    final int level = levelStack[ stackPos ];
    #if #keyclass(Character)
        final int signMask = 0;
    #else
        final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
    #endif

    final KEY_TYPE[] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
    final int shift = ( DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT ) * DIGIT_BITS; // This is the
shift that extract
the right byte from a key

    // Count keys.
    for( int i = first + length; i-- != first; ) count[ INT( KEY2LEXINT( k[ perm[ i ] ] ) >>> shift & DIGIT_MASK ^
signMask ) ]++;

    // Compute cumulative distribution
    int lastUsed = -1;
    for ( int i = 0, p = stable ? 0 : first; i < 1 << DIGIT_BITS; i++ ) {
        if ( count[ i ] != 0 ) lastUsed = i;
        pos[ i ] = ( p += count[ i ] );
    }
}

```



```

private static void selectionSort(
final KEY_TYPE[][] a, final int from, final int to, final int level ) {
final int layers = a.length;
final int firstLayer = level / DIGITS_PER_ELEMENT;

for( int i = from; i < to - 1; i++ ) {
int m = i;
for( int j = i + 1; j < to; j++ ) {
for( int p = firstLayer; p < layers; p++ ) {
if ( a[ p ][ j ] < a[ p ][ m ] ) {
m = j;
break;
}
else if ( a[ p ][ j ] > a[ p ][ m ] ) break;
}
}
if ( m != i ) {
for( int p = layers; p-- != 0; ) {
final KEY_TYPE u = a[ p ][ i ];
a[ p ][ i ] = a[ p ][ m ];
a[ p ][ m ] = u;
}
}
}
}
}

```

/** Sorts the specified array of arrays lexicographically using radix sort.

*

* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).

*

* <p>This method implements a lexicographical sorting of the provided arrays.

Tuples of elements

* in the same position will be considered a single key, and permuted

* accordingly.

*

* @param a an array containing arrays of equal length to be sorted lexicographically in parallel.

*/

```

public static void radixSort( final KEY_TYPE[][] a ) {
radixSort( a, 0, a[ 0 ].length );
}

```

```

/** Sorts the specified array of arrays lexicographically using radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).
 *
 * <p>This method implements a <em>lexicographical</em> sorting of the provided arrays. Tuples of elements
 * in the same position will be considered a single key, and permuted
 * accordingly.
 *
 * @param a an array containing arrays of equal length to be sorted lexicographically in parallel.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param
to the index of the last element (exclusive) to be sorted.
 */
public static void radixSort( final KEY_TYPE[][] a, final int from, final int to ) {
    if ( to - from < RADIXSORT_NO_REC ) {
        selectionSort( a, from, to, 0 );
        return;
    }

    final int layers = a.length;
    final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;
    for( int p = layers, l = a[ 0 ].length; p-- != 0; ) if ( a[ p ].length != l ) throw new IllegalArgumentException( "The
array of index " + p + " has not the same length of the array of index 0." );

    final int stackSize = ( ( 1 << DIGIT_BITS ) - 1 ) * ( layers * DIGITS_PER_ELEMENT - 1 ) + 1;
    int stackPos = 0;
    final int[] offsetStack = new int[ stackSize ];
    final int[] lengthStack = new int[ stackSize ];
    final int[] levelStack = new int[ stackSize ];

    offsetStack[ stackPos ] = from;
    lengthStack[ stackPos ] = to - from;
    levelStack[ stackPos++ ] = 0;

    final int[] count = new int[ 1 << DIGIT_BITS ];
    final int[] pos = new int[ 1 << DIGIT_BITS
];
    final KEY_TYPE[] t = new KEY_TYPE[ layers ];

    while( stackPos > 0 ) {
        final int first = offsetStack[ --stackPos ];
        final int length = lengthStack[ stackPos ];
        final int level = levelStack[ stackPos ];
        #if #keyclass(Character)
        final int signMask = 0;
        #else
        final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;

```



```
#endif
```

```
#endif
```

```
/** Shuffles the  
specified array fragment using the specified pseudorandom number generator.  
*  
* @param a the array to be shuffled.  
* @param from the index of the first element (inclusive) to be shuffled.  
* @param to the index of the last element (exclusive) to be shuffled.  
* @param random a pseudorandom number generator (please use a <a  
href="http://dsiutils.dsi.unimi.it/docs/it/unimi/dsi/util/XorShiftStarRandom.html">XorShift* </a> generator).  
* @return <code>a</code>.  
*/  
  
public static KEY_GENERIC KEY_GENERIC_TYPE[] shuffle( final KEY_GENERIC_TYPE[] a, final int from,  
final int to, final Random random ) {  
    for( int i = to - from; i-- != 0; ) {  
        final int p = random.nextInt( i + 1 );  
        final KEY_GENERIC_TYPE t = a[ from + i ];  
        a[ from + i ] = a[ from + p ];  
        a[ from + p ] = t;  
    }  
    return a;  
}
```

```
/** Shuffles the specified array using the specified pseudorandom number generator.  
*  
* @param a the array to be shuffled.  
* @param random a pseudorandom number generator (please  
use a <a href="http://dsiutils.dsi.unimi.it/docs/it/unimi/dsi/util/XorShiftStarRandom.html">XorShift* </a>  
generator).  
* @return <code>a</code>.  
*/  
  
public static KEY_GENERIC KEY_GENERIC_TYPE[] shuffle( final KEY_GENERIC_TYPE[] a, final Random  
random ) {  
    for( int i = a.length; i-- != 0; ) {  
        final int p = random.nextInt( i + 1 );  
        final KEY_GENERIC_TYPE t = a[ i ];  
        a[ i ] = a[ p ];  
        a[ p ] = t;  
    }  
    return a;  
}
```

```
/** Reverses the order of the elements in the specified array.
```

```
*
```

```
* @param a the array to be reversed.
```

```

* @return <code>a</code>.
*/
public static KEY_GENERIC KEY_GENERIC_TYPE[] reverse( final KEY_GENERIC_TYPE[] a ) {
    final int length = a.length;
    for( int i = length / 2; i-- != 0; ) {
        final KEY_GENERIC_TYPE t = a[ length - i - 1 ];
        a[ length - i - 1 ] = a[ i ];
        a[ i ] = t;
    }
    return a;
}

/** Reverses the order of the elements in the specified array fragment.
 *
 * @param a the array to be reversed.
 * @param from the index
of the first element (inclusive) to be reversed.
 * @param to the index of the last element (exclusive) to be reversed.
 * @return <code>a</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[] reverse( final KEY_GENERIC_TYPE[] a, final int from,
final int to ) {
    final int length = to - from;
    for( int i = length / 2; i-- != 0; ) {
        final KEY_GENERIC_TYPE t = a[ from + length - i - 1 ];
        a[ from + length - i - 1 ] = a[ from + i ];
        a[ from + i ] = t;
    }
    return a;
}

/** A type-specific content-based hash strategy for arrays. */

private static final class ArrayHashStrategy KEY_GENERIC implements
Hash.Strategy<KEY_GENERIC_TYPE[]>, java.io.Serializable {
    private static final long serialVersionUID = -7046029254386353129L;

    public int hashCode( final KEY_GENERIC_TYPE[] o ) {
        return java.util.Arrays.hashCode( o );
    }

    public boolean equals( final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE[] b ) {
        return java.util.Arrays.equals( a, b );
    }
}

/** A type-specific

```

content-based hash strategy for arrays.

```
*  
* <P>This hash strategy may be used in custom hash collections whenever keys are  
* arrays, and they must be considered equal by content. This strategy  
* will handle <code>null</code> correctly, and it is serializable.  
*/
```

```
#if #keys(primitive)  
public final static Hash.Strategy<KEY_TYPE[]> HASH_STRATEGY = new ArrayHashStrategy();  
#else  
@SuppressWarnings({"rawtypes"})  
public final static Hash.Strategy HASH_STRATEGY = new ArrayHashStrategy();  
#endif  
  
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Arrays.drv  
No license file was found, but licenses were detected in source scan.
```

```
/*  
* Copyright (C) 2002-2015 Sebastiano Vigna  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSet;  
import it.unimi.dsi.fastutil.objects.ObjectSets;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;  
import VALUE_PACKAGE.VALUE_COLLECTIONS;  
#if ! #valueclass(Object)  
import VALUE_PACKAGE.VALUE_SETS;  
#endif
```

```

import java.util.Map;

/** A class providing static methods
and objects that do useful things with type-specific maps.
*
* @see it.unimi.dsi.fastutil.Maps
* @see java.util.Collections
*/

public class MAPS {

    private MAPS() {}

    /** An immutable class representing an empty type-specific map.
    *
    * <P>This class may be useful to implement your own in case you subclass
    * a type-specific map.
    */

    public static class EmptyMap KEY_VALUE_GENERIC extends FUNCTIONS.EmptyFunction
    KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable, Cloneable {

        private static final long serialVersionUID = -7046029254386353129L;

        protected EmptyMap() {}

        public boolean containsValue( final VALUE_TYPE v ) { return false; }

        public void putAll( final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m ) {
        throw new UnsupportedOperationException(); }

        @SuppressWarnings("unchecked")
        public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { return ObjectSets.EMPTY_SET; }

        SUPPRESS_WARNINGS_KEY_UNCHECKED
        public
        SET KEY_GENERIC keySet() { return SETS.EMPTY_SET; }

        SUPPRESS_WARNINGS_VALUE_UNCHECKED
        public VALUE_COLLECTION VALUE_GENERIC values() { return VALUE_SETS.EMPTY_SET; }

        #if #values(primitive)
        public boolean containsValue( final Object ov ) { return false; }
        #endif

        private Object readResolve() { return EMPTY_MAP; }
    }
}

```

```

public Object clone() { return EMPTY_MAP; }

public boolean isEmpty() { return true; }

@SuppressWarnings({ "rawtypes", "unchecked" })
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSet)ENTRYSET(); }

public int hashCode() { return 0; }

public boolean equals( final Object o ) {
if ( ! ( o instanceof Map ) ) return false;

return ((Map<?,?>)o).isEmpty();
}

public String toString() { return "{}"; }
}

/** An empty type-specific map (immutable). It is serializable and cloneable. */

SUPPRESS_WARNINGS_KEY_VALUE_RAWTYPES
public static final EmptyMap EMPTY_MAP = new EmptyMap();

/**
An immutable class representing a type-specific singleton map.
*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific map.
*/

public static class Singleton KEY_VALUE_GENERIC extends FUNCTIONS.Singleton KEY_VALUE_GENERIC
implements MAP KEY_VALUE_GENERIC, java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

protected transient volatile ObjectSet<MAP.Entry KEY_VALUE_GENERIC> entries;
protected transient volatile SET KEY_GENERIC keys;
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

protected Singleton( final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value ) {
super( key, value );
}

public boolean containsValue( final VALUE_TYPE v ) { return VALUE_EQUALS( value, v ); }

```

```

#if #values(primitive)
    public boolean containsValue( final Object ov ) { return VALUE_EQUALS( VALUE_OBJ2TYPE( ov ), value ); }
#endif

    public void putAll( final Map<?
extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m ) { throw new
UnsupportedOperationException(); }

    public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if ( entries == null ) entries =
ObjectSets.singleton( (MAP.Entry KEY_VALUE_GENERIC)new SingletonEntry() ); return entries; }
    public SET KEY_GENERIC keySet() { if ( keys == null ) keys = SETS.singleton( key ); return keys; }
    public VALUE_COLLECTION VALUE_GENERIC values() { if ( values == null ) values =
VALUE_SETS.singleton( value ); return values; }

    protected class SingletonEntry implements MAP.Entry KEY_VALUE_GENERIC,
Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> {
#if #keys(primitive)
        /** {@inheritDoc}
         * @deprecated Please use the corresponding type-specific method instead. */
        @Deprecated
#endif
        public KEY_GENERIC_CLASS getKey() { return KEY2OBJ( Singleton.this.key ); }
#if #values(primitive)
        /** {@inheritDoc}
         * @deprecated Please use the corresponding type-specific method instead. */
        @Deprecated
#endif
        public
        VALUE_GENERIC_CLASS getValue() { return VALUE2OBJ( Singleton.this.value ); }

#if #keys(primitive)
        public KEY_GENERIC_TYPE ENTRY_GET_KEY() { return Singleton.this.key; }
#endif

#if #values(primitive)
        public VALUE_GENERIC_TYPE ENTRY_GET_VALUE() { return Singleton.this.value; }
        public VALUE_GENERIC_TYPE setValue( final VALUE_GENERIC_TYPE value ) { throw new
UnsupportedOperationException(); }
#endif

        public VALUE_GENERIC_CLASS setValue( final VALUE_GENERIC_CLASS value ) { throw new
UnsupportedOperationException(); }

        public boolean equals( final Object o ) {
            if (!(o instanceof Map.Entry)) return false;
            Map.Entry<?,?> e = (Map.Entry<?,?>)o;

            return KEY_EQUALS( Singleton.this.key, KEY_OBJ2TYPE( e.getKey() ) ) && VALUE_EQUALS(

```

```

Singleton.this.value, VALUE_OBJ2TYPE( e.getValue() ) );
    }

    public int hashCode() { return KEY2JAVAHASH( Singleton.this.key ) ^ VALUE2JAVAHASH(
Singleton.this.value ); }
    public String toString() { return
Singleton.this.key + "->" + Singleton.this.value; }
    }

    public boolean isEmpty() { return false; }

    @SuppressWarnings({ "rawtypes", "unchecked" })
    public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSet)ENTRYSET(); }

    public int hashCode() { return KEY2JAVAHASH( key ) ^ VALUE2JAVAHASH( value ); }

    public boolean equals( final Object o ) {
    if ( o == this ) return true;
    if ( ! ( o instanceof Map ) ) return false;

    Map<?,?> m = (Map<?,?>)o;
    if ( m.size() != 1 ) return false;
    return entrySet().iterator().next().equals( m.entrySet().iterator().next() );
    }

    public String toString() { return "{" + key + "=>" + value + "}"; }
    }

    /** Returns a type-specific immutable map containing only the specified pair. The returned map is serializable and
cloneable.
    *
    * <P>Note that albeit the returned map is immutable, its default return value may be changed.
    *
    * @param key the only key of the returned map.
    * @param
value the only value of the returned map.
    * @return a type-specific immutable map containing just the pair <code>&lt;key,value&gt;</code>.
    */

    public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC singleton( final KEY_GENERIC_TYPE
key, VALUE_GENERIC_TYPE value ) {
    return new Singleton KEY_VALUE_GENERIC( key, value );
    }

    #if #keys(primitive) || #values(primitive)

    /** Returns a type-specific immutable map containing only the specified pair. The returned map is serializable and

```

cloneable.

*

* <P>Note that albeit the returned map is immutable, its default return value may be changed.

*

* @param key the only key of the returned map.

* @param value the only value of the returned map.

* @return a type-specific immutable map containing just the pair <code><key,value></code>.

*/

```
public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC singleton( final KEY_GENERIC_CLASS
key, final VALUE_GENERIC_CLASS value ) {
    return new Singleton KEY_VALUE_GENERIC( KEY_CLASS2TYPE(
key ), VALUE_CLASS2TYPE( value ) );
}
```

#endif

/** A synchronized wrapper class for maps. */

```
public static class SynchronizedMap KEY_VALUE_GENERIC extends FUNCTIONS.SynchronizedFunction
KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable {
```

```
    private static final long serialVersionUID = -7046029254386353129L;
```

```
    protected final MAP KEY_VALUE_GENERIC map;
```

```
    protected transient volatile ObjectSet<MAP.Entry KEY_VALUE_GENERIC> entries;
```

```
    protected transient volatile SET KEY_GENERIC keys;
```

```
    protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;
```

```
    protected SynchronizedMap( final MAP KEY_VALUE_GENERIC m, final Object sync ) {
        super( m, sync );
        this.map = m;
    }
```

```
    protected SynchronizedMap( final MAP KEY_VALUE_GENERIC m ) {
        super( m );
        this.map = m;
    }
```

```
    public int size() { synchronized( sync ) { return map.size(); } }
```

```
    public boolean containsKey( final KEY_TYPE k ) { synchronized( sync ) { return map.containsKey( k ); } }
```

```
    public
```

```
    boolean containsValue( final VALUE_TYPE v ) { synchronized( sync ) { return map.containsValue( v ); } }
```

```
    public VALUE_GENERIC_TYPE defaultReturnValue() { synchronized( sync ) { return map.defaultReturnValue(); } }
}
```

```

    public void defaultReturnValue( final VALUE_GENERIC_TYPE defRetVal ) { synchronized( sync ) {
map.defaultReturnValue( defRetVal ); } }

    public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
synchronized( sync ) { return map.put( k, v ); } }

//public void putAll( final MAP KEY_VALUE_EXTENDS_GENERIC c ) { synchronized( sync ) { map.putAll( c );
} }
    public void putAll( final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m ) {
synchronized( sync ) { map.putAll( m ); } }

    public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if ( entries == null ) entries =
ObjectSets.synchronize( map.ENTRYSET(), sync ); return entries; }
    public SET KEY_GENERIC keySet() { if ( keys == null ) keys = SETS.synchronize( map.keySet(),
sync ); return keys; }
    public VALUE_COLLECTION VALUE_GENERIC values() { if ( values == null ) return
VALUE_COLLECTIONS.synchronize( map.values(), sync ); return values; }

    public void clear() { synchronized( sync ) { map.clear(); } }
    public String toString() { synchronized( sync ) { return map.toString(); } }

#if #keys(primitive) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
    public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS k, final VALUE_GENERIC_CLASS v ) {
synchronized( sync ) { return map.put( k, v ); } }
#endif

#if #keys(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
    public VALUE_GENERIC_TYPE remove( final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return
map.remove( k ); } }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method
instead. */
@Deprecated
@Override
    public VALUE_GENERIC_TYPE get( final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return map.get( k
); } }
    public boolean containsKey( final Object ok ) { synchronized( sync ) { return map.containsKey( ok ); } }
#endif

#if #values(primitive)

```

```

/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public boolean containsValue( final Object ov ) { synchronized( sync ) { return map.containsValue( ov ); } }
#endif

#if #keys(reference)
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
#endif
public VALUE_GENERIC_TYPE REMOVE_VALUE( final Object k ) { synchronized( sync ) { return
map.REMOVE_VALUE( k ); } }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
#endif
public VALUE_GENERIC_TYPE
GET_VALUE( final Object k ) { synchronized( sync ) { return map.GET_VALUE( k ); } }
#endif

public boolean isEmpty() { synchronized( sync ) { return map.isEmpty(); } }
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() {
synchronized( sync ) { return map.entrySet(); } }

public int hashCode() { synchronized( sync ) { return map.hashCode(); } }
public boolean equals( final Object o ) { synchronized( sync ) { return map.equals( o ); } }
}

/** Returns a synchronized type-specific map backed by the given type-specific map.
 *
 * @param m the map to be wrapped in a synchronized map.
 * @return a synchronized view of the specified map.
 * @see java.util.Collections#synchronizedMap(Map)
 */
public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC synchronize( final MAP
KEY_VALUE_GENERIC m ) { return new SynchronizedMap KEY_VALUE_GENERIC( m ); }

/** Returns a synchronized type-specific map backed by the given type-specific map, using an assigned
object to synchronize.
 *
 * @param m the map to be wrapped in a synchronized map.
 * @param sync an object that will be used to synchronize the access to the map.

```

```

* @return a synchronized view of the specified map.
* @see java.util.Collections#synchronizedMap(Map)
*/

public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC synchronize( final MAP
KEY_VALUE_GENERIC m, final Object sync ) { return new SynchronizedMap KEY_VALUE_GENERIC( m,
sync ); }

/** An unmodifiable wrapper class for maps. */

public static class UnmodifiableMap KEY_VALUE_GENERIC extends FUNCTIONS.UnmodifiableFunction
KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final MAP KEY_VALUE_GENERIC map;

protected transient volatile ObjectSet<MAP.Entry KEY_VALUE_GENERIC> entries;
protected transient volatile SET KEY_GENERIC keys;
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

protected
UnmodifiableMap( final MAP KEY_VALUE_GENERIC m ) {
    super( m );
    this.map = m;
}

public int size() { return map.size(); }
public boolean containsKey( final KEY_TYPE k ) { return map.containsKey( k ); }
public boolean containsValue( final VALUE_TYPE v ) { return map.containsValue( v ); }

public VALUE_GENERIC_TYPE defaultReturnValue() { throw new UnsupportedOperationException(); }
public void defaultReturnValue( final VALUE_GENERIC_TYPE defRetVal ) { throw new
UnsupportedOperationException(); }

public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
throw new UnsupportedOperationException(); }

//public void putAll( final MAP KEY_VALUE_EXTENDS_GENERIC c ) { throw new
UnsupportedOperationException(); }
public void putAll( final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m ) {
throw new UnsupportedOperationException(); }

public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if ( entries
== null ) entries = ObjectSets.unmodifiable( map.ENTRYSET() ); return entries; }
public SET KEY_GENERIC keySet() { if ( keys == null ) keys = SETS.unmodifiable( map.keySet() ); return keys; }

```

```

}
public VALUE_COLLECTION VALUE_GENERIC values() { if ( values == null ) return
VALUE_COLLECTIONS.unmodifiable( map.values() ); return values; }

public void clear() { throw new UnsupportedOperationException(); }
public String toString() { return map.toString(); }

#if #keys(primitive) && #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS k, final VALUE_GENERIC_CLASS v ) {
throw new UnsupportedOperationException(); }
#endif

#if #keys(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_TYPE remove( final KEY_GENERIC_TYPE k ) { throw new
UnsupportedOperationException(); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_TYPE get( final KEY_GENERIC_TYPE k ) { return map.get( k ); }
public boolean containsKey( final Object ok ) { return map.containsKey( ok ); }
#endif

#if #values(primitive)
public boolean containsValue( final Object ov ) { return map.containsValue( ov ); }
#endif

#if #keys(reference) || #values(reference)
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
#endif
#endif
public VALUE_GENERIC_TYPE REMOVE_VALUE( final Object k ) { throw new
UnsupportedOperationException(); }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated

```

```

@Override
#endif
public VALUE_GENERIC_TYPE GET_VALUE( final Object k ) { return map.GET_VALUE( k ); }
#endif

public
boolean isEmpty() { return map.isEmpty(); }
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
ObjectSets.unmodifiable( map.entrySet() ); }
}

/** Returns an unmodifiable type-specific map backed by the given type-specific map.
 *
 * @param m the map to be wrapped in an unmodifiable map.
 * @return an unmodifiable view of the specified map.
 * @see java.util.Collections#unmodifiableMap(Map)
 */
public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC unmodifiable( final MAP
KEY_VALUE_GENERIC m ) { return new UnmodifiableMap KEY_VALUE_GENERIC( m ); }

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Maps.drv

No license file was found, but licenses were detected in source scan.

```

/*
 * Copyright (C) 2007-2015 Sebastiano Vigna
 *
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 * limitations under the License.
 */

```

```
package PACKAGE;
```

```
import java.util.Map;
import java.util.NoSuchElementException;
import it.unimi.dsi.fastutil.objects.AbstractObjectIterator;
```

```

import it.unimi.dsi.fastutil.objects.AbstractObjectSet;
import it.unimi.dsi.fastutil.objects.ObjectIterator;

import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_COLLECTIONS;
import
    VALUE_PACKAGE.VALUE_ARRAY_SET;
import VALUE_PACKAGE.VALUE_ARRAYS;

/** A simple, brute-force implementation of a map based on two parallel backing arrays.
 *
 * <p>The main purpose of this
 * implementation is that of wrapping cleanly the brute-force approach to the storage of a very
 * small number of pairs: just put them into two parallel arrays and scan linearly to find an item.
 */

public class ARRAY_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP KEY_VALUE_GENERIC
implements java.io.Serializable, Cloneable {

    private static final long serialVersionUID = 1L;
    /** The keys (valid up to { @link #size}, excluded). */
    private transient KEY_TYPE[] key;
    /** The values (parallel to { @link #key}). */
    private transient VALUE_TYPE[] value;
    /** The number of valid entries in { @link #key} and { @link #value}. */
    private int size;

    /** Creates a new empty array map with given key and value backing arrays. The resulting map will have as many
    entries as the given arrays.

    *
    * <p>It is responsibility of the caller that the elements of <code>key</code> are distinct.
    *
    * @param key the key array.
    * @param value the value array (it <em>must</em> have the same length as <code>key</code>).
    */
    public ARRAY_MAP( final KEY_TYPE[] key, final VALUE_TYPE[] value ) {
        this.key = key;
        this.value = value;
        size = key.length;
        if( key.length != value.length ) throw new IllegalArgumentException( "Keys and values have different lengths (" +
key.length + ", " + value.length + ")" );
    }

    /** Creates a new empty array map.
    */
    public ARRAY_MAP() {
        this.key = ARRAYS.EMPTY_ARRAY;
    }

```

```

this.value = VALUE_ARRAYS.EMPTY_ARRAY;
}

/** Creates a new empty array map of given capacity.
 *
 * @param capacity the initial capacity.
 */
public ARRAY_MAP( final int capacity ) {
    this.key = new KEY_TYPE[ capacity ];
    this.value = new VALUE_TYPE[ capacity ];
}

/** Creates a new empty array map copying the entries of a given map.
 *
 * @param m a map.
 */
public ARRAY_MAP( final MAP KEY_VALUE_GENERIC m ) {
    this( m.size() );
    putAll( m );
}

/** Creates a new empty array map copying the entries of a given map.
 *
 * @param m a map.
 */
public ARRAY_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m
) {
    this( m.size() );
    putAll( m );
}

/** Creates a new array map with given key and value backing arrays, using the given number of elements.
 *
 * <p>It is responsibility of the caller that the first <code>size</code> elements of <code>key</code> are distinct.
 *
 * @param key the key array.
 * @param value the value array (it <em>must</em> have the same length as <code>key</code>).
 * @param size the number of valid elements in <code>key</code> and <code>value</code>.
 */
public ARRAY_MAP( final KEY_TYPE[] key, final VALUE_TYPE[] value, final int size ) {
    this.key = key;
    this.value = value;
    this.size = size;
    if( key.length != value.length ) throw new IllegalArgumentException(
        "Keys and values have different lengths (" + key.length + ", " + value.length + ")");
    if ( size > key.length ) throw new IllegalArgumentException( "The provided size (" + size + ") is larger than or equal
to the backing-arrays size (" + key.length + ")");
}

```

```
}
```

```
private final class EntrySet extends AbstractObjectSet<MAP.Entry KEY_VALUE_GENERIC> implements  
FastEntrySet KEY_VALUE_GENERIC {
```

```
    @Override
```

```
    public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {  
        return new AbstractObjectIterator<MAP.Entry KEY_VALUE_GENERIC>() {  
            int next = 0;
```

```
            public boolean hasNext() {  
                return next < size;  
            }  
        };
```

```
        SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
```

```
        public Entry KEY_VALUE_GENERIC next() {  
            if ( ! hasNext() ) throw new NoSuchElementException();  
            return new ABSTRACT_MAP.BasicEntry KEY_VALUE_GENERIC( KEY_GENERIC_CAST key[ next ],  
VALUE_GENERIC_CAST value[ next++ ] );  
        }  
    };
```

```
};  
}
```

```
public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator() {  
    return
```

```
new AbstractObjectIterator<MAP.Entry KEY_VALUE_GENERIC>() {  
    int next = 0;  
    final BasicEntry KEY_VALUE_GENERIC entry = new BasicEntry KEY_VALUE_GENERIC ( KEY_NULL,  
VALUE_NULL );
```

```
    public boolean hasNext() {  
        return next < size;  
    }  
};
```

```
    SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
```

```
    public Entry KEY_VALUE_GENERIC next() {  
        if ( ! hasNext() ) throw new NoSuchElementException();  
        entry.key = KEY_GENERIC_CAST key[ next ];  
        entry.value = VALUE_GENERIC_CAST value[ next++ ];  
        return entry;  
    }  
};
```

```
};  
}
```

```
public int size() {  
    return size;  
}
```

```

    }

    @SuppressWarnings("unchecked")
    public boolean contains( Object o ) {
        if ( ! ( o instanceof Map.Entry ) ) return false;
        final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
            (Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
        final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE( e.getKey() );
        return ARRAY_MAP.this.containsKey( k ) && VALUE_EQUALS( ARRAY_MAP.this.GET_VALUE( k ),
            VALUE_CLASS2TYPE(
                e.getValue() ) );
    }

}

public FastEntrySet KEY_VALUE_GENERIC ENTRYSET() {
    return new EntrySet();
}

private int findKey( final KEY_TYPE k ) {
    final KEY_TYPE[] key = this.key;
    for( int i = size; i-- != 0; ) if ( KEY_EQUALS( key[ i ], k ) ) return i;
    return -1;
}

SUPPRESS_WARNINGS_VALUE_UNCHECKED
#if #keys(primitive) || #values(primitive)
    public VALUE_GENERIC_TYPE GET_VALUE( final KEY_TYPE k ) {
#else
    public VALUE_GENERIC_TYPE get( final Object k ) {
#endif
        final KEY_TYPE[] key = this.key;
        for( int i = size; i-- != 0; ) if ( KEY_EQUALS( key[ i ], k ) ) return VALUE_GENERIC_CAST value[ i ];
        return defRetVal;
    }

public int size() {
    return size;
}

@Override
public void clear() {
    #if #keys(reference) || #values(reference)
        for( int i = size; i-- != 0; ) {
    #if #keys(reference)
        key[ i ] = null;
    #endif
    #if #values(reference)

```

```

    value[ i ] = null;
#endif
}
#endif
size = 0;
}

@Override
public boolean containsKey( final KEY_TYPE k ) {
    return findKey(
k ) != -1;
}

@Override
public boolean containsValue( VALUE_TYPE v ) {
    for( int i = size; i-- != 0; ) if ( VALUE_EQUALS( value[ i ], v ) ) return true;
    return false;
}

@Override
public boolean isEmpty() {
    return size == 0;
}

@Override
SUPPRESS_WARNINGS_VALUE_UNCHECKED
public VALUE_GENERIC_TYPE put( KEY_GENERIC_TYPE k, VALUE_GENERIC_TYPE v ) {
    final int oldKey = findKey( k );
    if ( oldKey != -1 ) {
        final VALUE_GENERIC_TYPE oldValue = VALUE_GENERIC_CAST value[ oldKey ];
        value[ oldKey ] = v;
        return oldValue;
    }
    if ( size == key.length ) {
        final KEY_TYPE[] newKey = new KEY_TYPE[ size == 0 ? 2 : size * 2 ];
        final VALUE_TYPE[] newValue = new VALUE_TYPE[ size == 0 ? 2 : size * 2 ];
        for( int i = size; i-- != 0; ) {
            newKey[ i ] = key[ i ];
            newValue[ i ] = value[ i ];
        }
        key = newKey;
        value = newValue;
    }
    key[ size ] = k;
    value[ size ] = v;
    size++;
    return defRetValue;
}

```

```

@Override
SUPPRESS_WARNINGS_VALUE_UNCHECKED
#if
#keys(primitive) || #values(primitive)
public VALUE_GENERIC_TYPE REMOVE_VALUE( final KEY_TYPE k ) {
#else
public VALUE_GENERIC_TYPE remove( final Object k ) {
#endif
    final int oldPos = findKey( k );
    if ( oldPos == -1 ) return defRetVal;
    final VALUE_GENERIC_TYPE oldValue = VALUE_GENERIC_CAST value[ oldPos ];
    final int tail = size - oldPos - 1;
    for( int i = 0; i < tail; i++ ) {
        key[ oldPos + i ] = key[ oldPos + i + 1 ];
        value[ oldPos + i ] = value[ oldPos + i + 1 ];
    }
    size--;
#if #keys(reference)
    key[ size ] = null;
#endif
#if #values(reference)
    value[ size ] = null;
#endif
    return oldValue;
}

```

```

@Override

```

```

public SET KEY_GENERIC keySet() {
    return new ARRAY_SET KEY_GENERIC( key, size );
}

```

```

@Override

```

```

public VALUE_COLLECTION VALUE_GENERIC values() {
    return VALUE_COLLECTIONS.unmodifiable( new VALUE_ARRAY_SET VALUE_GENERIC( value, size ) );
}

```

```

/** Returns a deep copy of this map.

```

```

*

```

```

* <P>This method performs a deep copy of this hash map; the data stored
in the

```

```

* map, however, is not cloned. Note that this makes a difference only for object keys.

```

```

*

```

```

* @return a deep copy of this map.

```

```

*/

```

```

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED

```

```

public ARRAY_MAP KEY_VALUE_GENERIC clone() {
    ARRAY_MAP KEY_VALUE_GENERIC c;
    try {
        c = (ARRAY_MAP KEY_VALUE_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }
    c.key = key.clone();
    c.value = value.clone();
    return c;
}

```

```

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    s.defaultWriteObject();
    for( int i = 0; i < size; i++ ) {
        s.WRITE_KEY( key[ i ] );
        s.WRITE_VALUE( value[ i ] );
    }
}

```

```

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();
    key = new KEY_TYPE[ size ];
    value = new VALUE_TYPE[ size ];
    for( int i = 0; i < size; i++ ) {
        key[ i ] = s.READ_KEY();
        value[ i ] = s.READ_VALUE();
    }
}
}

```

Found

in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayMap.drv

No license file was found, but licenses were detected in source scan.

/*

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*/

```
package PACKAGE;

import it.unimi.dsi.fastutil.Hash;
import it.unimi.dsi.fastutil.HashCommon;
import static it.unimi.dsi.fastutil.HashCommon.arraySize;
import static it.unimi.dsi.fastutil.HashCommon.maxFill;

import java.util.Map;
import java.util.Arrays;
import java.util.NoSuchElementException;

import VALUE_PACKAGE.VALUE_COLLECTION;
import
    VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;

#if #values(primitive) || #keys(primitive) && #valueclass(Object)
import VALUE_PACKAGE.VALUE_ITERATOR;
#endif

#ifdef Linked

import java.util.Comparator;

#if #key(reference)
import java.util.Collection;
import java.util.Iterator;
import java.util.Set;
import java.util.SortedMap;
import java.util.SortedSet;
#endif

#if #values(primitive)
import VALUE_PACKAGE.VALUE_LIST_ITERATOR;
#endif

#if #keys(primitive) && #valueclass(Reference)
import it.unimi.dsi.fastutil.objects.ObjectIterator;
#endif

import it.unimi.dsi.fastutil.objects.AbstractObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
```

```

import it.unimi.dsi.fastutil.objects.ObjectSortedSet;

#else

import it.unimi.dsi.fastutil.objects.AbstractObjectSet;

#if #keys(primitive) && ! #valueclass(Object)
import it.unimi.dsi.fastutil.objects.ObjectIterator;
#endif

#endif

#ifdef Linked
/**
 * A type-specific linked hash map with with a fast, small-footprint implementation.
 *
 * <P>Instances of this class use a hash table to represent a map. The table is
 * filled up to a specified <em>load factor</em>, and then doubled in size to
 * accommodate new entries. If the table is emptied below <em>one fourth</em>
 * of the load factor, it is halved in size. However, halving is
 * not performed when deleting entries from an iterator, as it would interfere
 * with the iteration process.
 *
 * <p>Note that { @link #clear() } does not modify the hash table size.
 * Rather, a family of { @linkplain #trim() trimming
 * methods } lets you control the size of the table; this is particularly useful
 * if you reuse instances of this class.
 *
 * <P>Iterators generated by this map will enumerate pairs in the same order in which they
 * have been added to the map (addition of pairs whose key is already present
 * in the set does not change the iteration order). Note that this order has
 * nothing in common with the natural
 * order of the keys. The order is kept by means of a doubly linked list, represented
 * <i>via</i> an array of longs parallel to the table.
 *
 * <P>This class implements the interface of a sorted map, so to allow easy
 * access of the iteration order: for instance, you can get the first key
 * in iteration order with { @code firstKey() } without having to create an
 * iterator; however, this class partially violates the { @link java.util.SortedMap }
 * contract because all submap methods throw an exception and { @link
 * #comparator() } returns always <code>null</code>.
 *
 * <p>Additional methods, such as <code>getAndMoveToFirst()</code>, make it easy
 * to use instances of this class as a cache (e.g., with LRU policy).
 *
 * <P>The iterators provided by the views of this class using are type-specific
 * { @linkplain java.util.ListIterator list iterators }, and can be started at any

```

- * element `which is a key of the map`, or
- * a `{ @link NoSuchElementException }` exception will be thrown.
- * If, however, the provided element is not the first or last key in the
- * set, the first access to the list index will require linear time, as in the worst case
- * the entire key set must be scanned in iteration order to retrieve the positional
- * index of the starting key. If you use just the methods of a type-specific `{ @link it.unimi.dsi.fastutil.BidirectionalIterator }`,
- * however, all operations will be performed in constant time.
- *
- * `@see Hash`
- * `@see HashCommon`
- */

```
public class OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
#ifdef Custom
```

```
/** A type-specific hash map with a fast, small-footprint implementation whose { @linkplain
it.unimi.dsi.fastutil.Hash.Strategy hashing strategy }
```

```
* is specified at creation time.
```

```
*
```

```
* <P>Instances of this class use a hash table to represent a map. The table is
```

```
* filled up to a specified <em>load factor</em>, and
```

```
then doubled in size to
```

```
* accommodate new entries. If the table is emptied below <em>one fourth</em>
```

```
* of the load factor, it is halved in size. However, halving is
```

```
* not performed when deleting entries from an iterator, as it would interfere
```

```
* with the iteration process.
```

```
*
```

```
* <p>Note that { @link #clear() } does not modify the hash table size.
```

```
* Rather, a family of { @linkplain #trim() trimming
```

```
* methods } lets you control the size of the table; this is particularly useful
```

```
* if you reuse instances of this class.
```

```
*
```

```
* @see Hash
```

```
* @see HashCommon
```

```
*/
```

```
public class OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
/** A type-specific hash map with a fast, small-footprint implementation.
```

```

*
* <P>Instances of this class use a hash table to represent a map. The table is
* filled up to a specified <em>load factor</em>, and then doubled in size to
* accommodate new entries. If the table is emptied below
* <em>one fourth</em>
* of the load factor, it is halved in size. However, halving is
* not performed when deleting entries from an iterator, as it would interfere
* with the iteration process.
*
* <p>Note that { @link #clear() } does not modify the hash table size.
* Rather, a family of { @linkplain #trim() trimming
* methods } lets you control the size of the table; this is particularly useful
* if you reuse instances of this class.
*
* @see Hash
* @see HashCommon
*/

```

```

public class OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable, Hash {

```

```

#endif

```

```

#endif

```

```

    private static final long serialVersionUID = 0L;
    private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

/** The array of keys. */
protected transient KEY_GENERIC_TYPE[] key;

```

```

/** The array of values. */
protected transient VALUE_GENERIC_TYPE[] value;

```

```

/** The mask for wrapping a position counter. */
protected transient int mask;

```

```

/** Whether this set
contains the key zero. */
protected transient boolean containsNullKey;

```

```

#ifdef Custom

```

```

/** The hash strategy of this custom map. */
protected STRATEGY KEY_GENERIC strategy;

```

```

#endif

```

```

#ifdef Linked

```

```

/** The index of the first entry in iteration order. It is valid iff { @link #size } is nonzero; otherwise, it contains -1. */

```

```

protected transient int first = -1;
/** The index of the last entry in iteration order. It is valid iff { @link #size } is nonzero; otherwise, it contains -1. */
protected transient int last = -1;
/** For each entry, the next and the previous entry in iteration order,
 * stored as <code>((prev & 0xFFFFFFFFL) << 32) | (next & 0xFFFFFFFFL)</code>.
 * The first entry contains predecessor -1, and the last entry
 * contains successor -1. */
protected transient long[] link;
#endif

/** The current table size. */
protected transient int n;

/** Threshold after which we rehash. It must be the table size times { @link #f }. */
protected transient int maxFill;

/**
Number of entries in the set (including the key zero, if present). */
protected int size;

/** The acceptable load factor. */
protected final float f;

#ifdef Linked
/** Cached set of entries. */
protected transient volatile FastSortedEntrySet KEY_VALUE_GENERIC entries;

/** Cached set of keys. */
protected transient volatile SORTED_SET KEY_GENERIC keys;
#else
/** Cached set of entries. */
protected transient volatile FastEntrySet KEY_VALUE_GENERIC entries;

/** Cached set of keys. */
protected transient volatile SET KEY_GENERIC keys;
#endif

/** Cached collection of values. */
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

#ifdef Custom
/** Creates a new hash map.
 *
 * <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
 *
 * @param expected the expected number of elements in the hash set.
 * @param f the load factor.

```

```

* @param strategy the strategy.
*/
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public
OPEN_HASH_MAP( final int expected, final float f, final STRATEGY KEY_GENERIC strategy ) {
    this.strategy = strategy;
#else
/** Creates a new hash map.
*
* <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
*
* @param expected the expected number of elements in the hash set.
* @param f the load factor.
*/
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public OPEN_HASH_MAP( final int expected, final float f ) {
#endif
    if ( f <= 0 || f > 1 ) throw new IllegalArgumentException( "Load factor must be greater than 0 and smaller than or
equal to 1" );
    if ( expected < 0 ) throw new IllegalArgumentException( "The expected number of elements must be nonnegative"
);

    this.f = f;

    n = arraySize( expected, f );
    mask = n - 1;
    maxFill = maxFill( n, f );
    key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ n + 1 ];
    value = VALUE_GENERIC_ARRAY_CAST new VALUE_TYPE[ n + 1 ];
#ifdef Linked
    link = new long[
n + 1 ];
#endif
}

#ifdef Custom
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
*
* @param expected the expected number of elements in the hash map.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP( final int expected, final STRATEGY KEY_GENERIC strategy ) {
    this( expected, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.

```

```

*
* @param expected the expected number of elements in the hash map.
*/

public OPEN_HASH_MAP( final int expected ) {
    this( expected, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash map with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } entries
 * and { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_MAP( final STRATEGY KEY_GENERIC strategy ) {
    this( DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new
hash map with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } entries
 * and { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 */

public OPEN_HASH_MAP() {
    this( DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash map copying a given one.
 *
 * @param m a { @link Map } to be copied into the new hash map.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m, final float f, final STRATEGY KEY_GENERIC strategy ) {
    this( m.size(), f, strategy );
    putAll( m );
}
#else
/** Creates a new hash map copying a given one.
 *
 * @param m a { @link Map } to be copied into the new hash map.

```

```

* @param f the load factor.
*/

public OPEN_HASH_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m, final float f ) {
    this( m.size(), f );
    putAll( m );
}
#endif

#ifdef Custom
/** Creates a new hash map
with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor copying a given one.
*
* @param m a { @link Map } to be copied into the new hash map.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m, final STRATEGY KEY_GENERIC strategy ) {
    this( m, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor copying a given one.
*
* @param m a { @link Map } to be copied into the new hash map.
*/

public OPEN_HASH_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m ) {
    this( m, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash map copying a given type-specific one.
*
* @param m a type-specific map to be copied into the new hash map.
* @param f the load factor.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP( final MAP KEY_VALUE_GENERIC m, final float f, final STRATEGY
KEY_GENERIC strategy ) {
    this( m.size(), f, strategy );
    putAll( m );
}
#else

```

```

/** Creates a new hash map copying a given type-specific one.
 *
 * @param m a type-specific map to be copied into the new hash map.
 * @param f the load factor.
 */

public OPEN_HASH_MAP( final MAP KEY_VALUE_GENERIC m, final float f ) {
    this( m.size(), f );
    putAll( m );
}
#endif

#ifdef Custom
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor copying a given type-
specific one.
 *
 * @param m a type-specific map to be copied into the new hash map.
 * @param strategy the strategy.
 */

public OPEN_HASH_MAP( final MAP KEY_VALUE_GENERIC m, final STRATEGY KEY_GENERIC strategy
) {
    this( m, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor copying a given type-
specific one.
 *
 * @param m a type-specific map to be copied into the new hash map.
 */

public OPEN_HASH_MAP( final
MAP KEY_VALUE_GENERIC m ) {
    this( m, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash map using the elements of two parallel arrays.
 *
 * @param k the array of keys of the new hash map.
 * @param v the array of corresponding values in the new hash map.
 * @param f the load factor.
 * @param strategy the strategy.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

```

```

public OPEN_HASH_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE[] v, final float f,
final STRATEGY KEY_GENERIC strategy ) {
    this( k.length, f, strategy );
    if ( k.length != v.length ) throw new IllegalArgumentException( "The key array and the value array have different
lengths ( " + k.length + " and " + v.length + " )" );
    for( int i = 0; i < k.length; i++ ) this.put( k[ i ], v[ i ] );
}
#else
/** Creates a new hash map using the elements of two parallel arrays.
*
* @param k the array of keys of the new hash map.
* @param
v the array of corresponding values in the new hash map.
* @param f the load factor.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public OPEN_HASH_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE[] v, final float f ) {
    this( k.length, f );
    if ( k.length != v.length ) throw new IllegalArgumentException( "The key array and the value array have different
lengths ( " + k.length + " and " + v.length + " )" );
    for( int i = 0; i < k.length; i++ ) this.put( k[ i ], v[ i ] );
}
#endif

#ifdef Custom
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using the elements of
two parallel arrays.
*
* @param k the array of keys of the new hash map.
* @param v the array of corresponding values in the new hash map.
* @param strategy the strategy.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public OPEN_HASH_MAP( final KEY_GENERIC_TYPE[]
k, final VALUE_GENERIC_TYPE[] v, final STRATEGY KEY_GENERIC strategy ) {
    this( k, v, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using the elements of
two parallel arrays.
*
* @param k the array of keys of the new hash map.
* @param v the array of corresponding values in the new hash map.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

```

```

public OPEN_HASH_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE[] v ) {
    this( k, v, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Returns the hashing strategy.
 *
 * @return the hashing strategy of this custom hash map.
 */

public STRATEGY KEY_GENERIC strategy() {
    return strategy;
}
#endif

private int realSize() {
    return containsNullKey ? size - 1 : size;
}

private void ensureCapacity( final int capacity ) {
    final int needed = arraySize( capacity, f );
    if (
        needed > n ) rehash( needed );
}

private void tryCapacity( final long capacity ) {
    final int needed = (int)Math.min( 1 << 30, Math.max( 2, HashCommon.nextPowerOfTwo( (long)Math.ceil( capacity
/ f ) ) ) );
    if ( needed > n ) rehash( needed );
}

private VALUE_GENERIC_TYPE removeEntry( final int pos ) {
    final VALUE_GENERIC_TYPE oldValue = value[ pos ];
#ifdef values(reference)
    value[ pos ] = null;
#endif
    size--;
#ifdef Linked
    fixPointers( pos );
#endif

    shiftKeys( pos );
    if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
    return oldValue;
}

```

```

private VALUE_GENERIC_TYPE removeNullEntry() {
    containsNullKey = false;
#if #keys(reference)
    key[ n ] = null;
#endif
    final VALUE_GENERIC_TYPE oldValue = value[ n ];
#if #values(reference)
    value[ n ] = null;
#endif
    size--;
#ifdef Linked
    fixPointers( n );
#endif
    if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
    return oldValue;
}

/** {@inheritDoc} */
public void putAll(Map<?
extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS> m) {
    if ( f <= .5 ) ensureCapacity( m.size() ); // The resulting map will be sized for m.size() elements
    else tryCapacity( size() + m.size() ); // The resulting map will be tentatively sized for size() + m.size() elements
    super.putAll( m );
}

private int insert(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNullKey ) return n;
        containsNullKey = true;
        pos = n;
    }
    else {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[] key = this.key;

        // The starting point.
        if ( ! KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return pos;
            while( ! KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) )
                if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return pos;
        }
    }

    key[ pos ] = k;
}

```

```

    value[ pos ] = v;
#ifdef Linked
    if ( size == 0 ) {
        first = last = pos;
        // Special case of
SET_UPPER_LOWER( link[ pos ], -1, -1 );
        link[ pos ] = -1L;
    }
    else {
        SET_NEXT( link[ last ], pos );
        SET_UPPER_LOWER( link[ pos ], last, -1 );
        last = pos;
    }
#endif

    if ( size++ >= maxFill ) rehash( arraySize( size + 1, f ) );
    if ( ASSERTS ) checkTable();
    return -1;
}

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
    final int pos = insert( k, v );
    if ( pos < 0 ) return defRetVal;
    final VALUE_GENERIC_TYPE oldValue = value[ pos ];
    value[ pos ] = v;
    return oldValue;
}

#ifdef #values(primitive) || #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov )
{
    final VALUE_GENERIC_TYPE v = VALUE_CLASS2TYPE( ov );

    final int pos = insert( KEY_CLASS2TYPE( ok ), v );
    if ( pos < 0 ) return OBJECT_DEFAULT_RETURN_VALUE;
    final VALUE_GENERIC_TYPE oldValue
= value[ pos ];
    value[ pos ] = v;
    return VALUE2OBJ( oldValue );
}
#endif

```

```

#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Char) || #valueclass(Integer) || #valueclass(Long) ||
#valueclass(Float) || #valueclass(Double)

private VALUE_GENERIC_TYPE addToValue( final int pos, final VALUE_GENERIC_TYPE incr ) {
    final VALUE_GENERIC_TYPE oldValue = value[ pos ];
#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Char)
    value[ pos ] = (VALUE_TYPE)(oldValue + incr);
#else
    value[ pos ] = oldValue + incr;
#endif
    return oldValue;
}

/** Adds an increment to value currently associated with a key.
 *
 * <P>Note that this method respects the { @linkplain #defaultReturnValue() default return value } semantics: when
 * called with a key that does not currently appears in the map, the key
 * will be associated with the default return value plus
 * the given increment.
 *
 * @param k the key.
 * @param incr the increment.
 * @return the old value, or the
 * { @linkplain #defaultReturnValue() default return value } if no value was present for the given key.
 */
public VALUE_GENERIC_TYPE addTo(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE incr) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNullKey ) return addToValue( n, incr );
        pos = n;
        containsNullKey = true;
    }
    else {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[] key = this.key;

        // The starting point.
        if ( ! KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return addToValue( pos, incr );
            while( ! KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) )
                if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return addToValue( pos, incr );
        }
    }

    key[ pos ] = k;
}

```

```

#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Char)
    value[ pos ] = (VALUE_TYPE)(defRetVal + incr);
#else
    value[ pos ] = defRetVal + incr;
#endif

#ifdef Linked
    if ( size == 0 ) {
        first = last = pos;
        //
        Special case of SET_UPPER_LOWER( link[ pos ], -1, -1 );
        link[ pos ] = -1L;
    }
    else {
        SET_NEXT( link[ last ], pos );
        SET_UPPER_LOWER( link[ pos ], last, -1 );
        last = pos;
    }
#endif

    if ( size++ >= maxFill ) rehash( arraySize( size + 1, f ) );
    if ( ASSERTS ) checkTable();
    return defRetVal;
}

#endif

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
protected final void shiftKeys( int pos ) {
    // Shift entries with the same hash.
    int last, slot;
    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;

    for(;;) {
        pos = ( ( last = pos ) + 1 ) & mask;

        for(;;) {
            if ( KEY_IS_NULL( curr = key[ pos ] ) ) {
                key[ last ] = KEY_NULL;
            }
        }
    }
    #if #values(reference)
        value[ last ] = null;
    #endif
    return;
}

```

```

    }
    slot = KEY2INTHASH( curr ) & mask;
    if ( last <= pos ? last >= slot || slot > pos : last >= slot
&& slot > pos ) break;
    pos = ( pos + 1 ) & mask;
}

key[ last ] = curr;
value[ last ] = value[ pos ];
#ifdef Linked
    fixPointers( pos, last );
#endif
}
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE( final KEY_TYPE k ) {
    if ( KEY_EQUALS_NULL( KEY_GENERIC_CAST k ) ) {
        if ( containsNullKey ) return removeNullEntry();
        return defRetValue;
    }

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH_CAST( k ) & mask ] ) ) return defRetValue;
    if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return removeEntry( pos );
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return defRetValue;
        if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return removeEntry( pos );
    }
}

#if #keys(primitive) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead.
 */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS remove( final Object ok ) {
    final KEY_GENERIC_TYPE k = KEY_GENERIC_CAST KEY_OBJ2TYPE( ok );
    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNullKey ) return VALUE2OBJ( removeNullEntry() );
    }
}

```

```

return OBJECT_DEFAULT_RETURN_VALUE;
}

KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[] key = this.key;
int pos;

// The starting point.
if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) return
OBJECT_DEFAULT_RETURN_VALUE;
if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return VALUE2OBJ( removeEntry( pos ) );
while( true ) {
    if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return OBJECT_DEFAULT_RETURN_VALUE;
    if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return VALUE2OBJ( removeEntry( pos ) );
}
}
#endif

#ifdef Linked

private VALUE_GENERIC_TYPE setValue( final int pos, final VALUE_GENERIC_TYPE v ) {
    final VALUE_GENERIC_TYPE oldValue = value[ pos ];
    value[ pos ] = v;
    return
    oldValue;
}

/** Removes the mapping associated with the first key in iteration order.
 * @return the value previously associated with the first key in iteration order.
 * @throws NoSuchElementException is this map is empty.
 */
public VALUE_GENERIC_TYPE REMOVE_FIRST_VALUE() {
    if ( size == 0 ) throw new NoSuchElementException();
    final int pos = first;
    // Abbreviated version of fixPointers(pos)
    first = GET_NEXT(link[ pos ]);
    if ( 0 <= first ) {
        // Special case of SET_PREV( link[ first ], -1 )
        link[ first ] |= (-1 & 0xFFFFFFFFL) << 32;
    }
    size--;
    final VALUE_GENERIC_TYPE v = value[ pos ];
    if ( pos == n ) {
        containsNullKey = false;
    }
    #if #keys(reference)
        key[ n ] = null;
    #endif
}

```

```

#if #values(reference)
    value[ n ] = null;
#endif
}
else shiftKeys( pos );
if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
return v;
}

/** Removes the mapping associated with the last key in iteration order.
 * @return the value previously
associated with the last key in iteration order.
 * @throws NoSuchElementException is this map is empty.
 */
public VALUE_GENERIC_TYPE REMOVE_LAST_VALUE() {
    if ( size == 0 ) throw new NoSuchElementException();
    final int pos = last;
    // Abbreviated version of fixPointers(pos)
    last = GET_PREV(link[ pos ]);
    if ( 0 <= last ) {
        // Special case of SET_NEXT( link[ last ], -1 )
        link[ last ] |= -1 & 0xFFFFFFFFFL;
    }
    size--;
    final VALUE_GENERIC_TYPE v = value[ pos ];
    if ( pos == n ) {
        containsNullKey = false;
    }
#if #keys(reference)
    key[ n ] = null;
#endif
#if #values(reference)
    value[ n ] = null;
#endif
}
else shiftKeys( pos );
if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
return v;
}

private void moveIndexToFirst( final int i ) {
    if ( size == 1 || first == i ) return;
    if ( last == i ) {
        last = GET_PREV(link[ i ]);
        // Special case of SET_NEXT( link[ last ], -1 );
        link[ last ] |= -1 & 0xFFFFFFFFFL;
    }
    else {
        final

```

```

long linki = link[ i ];
final int prev = GET_PREV(linki);
final int next = GET_NEXT(linki);
COPY_NEXT(link[ prev ], linki);
COPY_PREV(link[ next ], linki);
}
SET_PREV( link[ first ], i );
SET_UPPER_LOWER( link[ i ], -1, first );
first = i;
}

private void moveIndexToLast( final int i ) {
if ( size == 1 || last == i ) return;
if ( first == i ) {
first = GET_NEXT(link[ i ]);
// Special case of SET_PREV( link[ first ], -1 );
link[ first ] |= (-1 & 0xFFFFFFFFL) << 32;
}
else {
final long linki = link[ i ];
final int prev = GET_PREV(linki);
final int next = GET_NEXT(linki);
COPY_NEXT(link[ prev ], linki);
COPY_PREV(link[ next ], linki);
}
SET_NEXT( link[ last ], i );
SET_UPPER_LOWER( link[ i ], last, -1 );
last = i;
}

/** Returns the value to which the given key is mapped; if the key is present, it is moved to the first position of the
iteration order.
*
* @param k the key.
* @return the corresponding value, or the
{@link plain #defaultReturnValue() default return value} if no value was present for the given key.
*/
public VALUE_GENERIC_TYPE getAndMoveToFirst( final KEY_GENERIC_TYPE k ) {
if ( KEY_EQUALS_NULL( k ) ) {
if ( containsNullKey ) {
moveIndexToFirst( n );
return value[ n ];
}

return defRetVal;
}

KEY_GENERIC_TYPE curr;

```

```

final KEY_GENERIC_TYPE[] key = this.key;
int pos;

// The starting point.
if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) return defRetVal;
if ( KEY_EQUALS_NOT_NULL( k, curr ) ) {
    moveIndexToFirst( pos );
    return value[ pos ];
}

// There's always an unused entry.
while( true ) {
    if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return defRetVal;
    if ( KEY_EQUALS_NOT_NULL( k, curr ) ) {
        moveIndexToFirst( pos );
        return value[ pos ];
    }
}

/** Returns the value to which the given key is mapped; if the key is present, it is moved to the last position of the
iteration
order.
*
* @param k the key.
* @return the corresponding value, or the { @linkplain #defaultReturnValue() default return value } if no value was
present for the given key.
*/
public VALUE_GENERIC_TYPE getAndMoveToLast( final KEY_GENERIC_TYPE k ) {
    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNullKey ) {
            moveIndexToLast( n );
            return value[ n ];
        }

        return defRetVal;
    }

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) return defRetVal;
    if ( KEY_EQUALS_NOT_NULL( k, curr ) ) {
        moveIndexToLast( pos );
        return value[ pos ];
    }
}

```

```

// There's always an unused entry.
while( true ) {
    if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return defRetVal;
    if ( KEY_EQUALS_NOT_NULL( k, curr ) ) {
        moveIndexToLast( pos );
        return value[ pos ];
    }
}

/** Adds a pair to the map; if the key is already present,
it is moved to the first position of the iteration order.
*
* @param k the key.
* @param v the value.
* @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
*/
public VALUE_GENERIC_TYPE putAndMoveToFirst( final KEY_GENERIC_TYPE k, final
VALUE_GENERIC_TYPE v ) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNullKey ) {
            moveIndexToFirst( n );
            return setValue( n, v );
        }
        containsNullKey = true;
        pos = n;
    }
    else {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[] key = this.key;

        // The starting point.
        if ( ! KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) {
                moveIndexToFirst( pos );
                return setValue( pos, v );
            }
        }
        while( ! KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) )
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) {
                moveIndexToFirst( pos );
                return setValue( pos, v );
            }
    }
}

```

```

key[ pos ] = k;
value[ pos ] = v;

if ( size == 0 ) {
    first = last = pos;
    // Special case of SET_UPPER_LOWER( link[ pos ], -1, -1 );
    link[ pos ] = -1L;
}
else {
    SET_PREV( link[ first ], pos );
    SET_UPPER_LOWER( link[ pos ], -1, first );
    first = pos;
}

if ( size++ >= maxFill ) rehash( arraySize( size, f ) );
if ( ASSERTS ) checkTable();
return defRetVal;
}

/** Adds a pair to the map; if the key is already present, it is moved to the last position of the iteration order.
 *
 * @param k the key.
 * @param v the value.
 * @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
 */
public VALUE_GENERIC_TYPE putAndMoveToLast( final KEY_GENERIC_TYPE k, final
VALUE_GENERIC_TYPE v ) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNullKey ) {
            moveIndexToLast( n );
            return setValue( n, v );
        }
        containsNullKey = true;
        pos = n;
    }
    else
    {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[] key = this.key;

        // The starting point.
        if ( ! KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) {

```

```

    moveIndexToLast( pos );
    return setValue( pos, v );
}
while( ! KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) )
if ( KEY_EQUALS_NOT_NULL( curr, k ) ) {
    moveIndexToLast( pos );
    return setValue( pos, v );
}
}
}

key[ pos ] = k;
value[ pos ] = v;

if ( size == 0 ) {
    first = last = pos;
    // Special case of SET_UPPER_LOWER( link[ pos ], -1, -1 );
    link[ pos ] = -1L;
}
else {
    SET_NEXT( link[ last ], pos );
    SET_UPPER_LOWER( link[ pos ], last, -1 );
    last = pos;
}

if ( size++ >= maxFill ) rehash( arraySize( size, f ) );
if ( ASSERTS ) checkTable();
return defRetVal;
}

#endif

#if #keys(primitive)

public VALUE_GENERIC_CLASS get( final KEY_CLASS ok ) {
    final KEY_GENERIC_TYPE
    k = KEY_CLASS2TYPE( ok );
    if ( KEY_EQUALS_NULL( k ) ) return containsNullKey ? VALUE2OBJ( value[ n ] ) :
OBJECT_DEFAULT_RETURN_VALUE;

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) return
OBJECT_DEFAULT_RETURN_VALUE;
    if ( KEY_EQUALS_NOT_NULL( k, curr ) ) return VALUE2OBJ( value[ pos ] );

```

```

// There's always an unused entry.
while( true ) {
    if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return OBJECT_DEFAULT_RETURN_VALUE;
    if ( KEY_EQUALS_NOT_NULL( k, curr ) ) return VALUE2OBJ( value[ pos ] );
}
}

#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE( final KEY_TYPE k ) {
    if ( KEY_EQUALS_NULL( KEY_GENERIC_CAST k ) ) return containsNullKey ? value[ n ] : defRetVal;

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos
= KEY2INTHASH_CAST( k ) & mask ] ) ) return defRetVal;
    if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return value[ pos ];
    // There's always an unused entry.
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return defRetVal;
        if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return value[ pos ];
    }
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey( final KEY_TYPE k ) {
    if ( KEY_EQUALS_NULL( KEY_GENERIC_CAST k ) ) return containsNullKey;

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH_CAST( k ) & mask ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return true;
    // There's always an unused entry.
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return false;
        if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return true;
    }
}

```

```

public boolean containsValue( final VALUE_TYPE v ) {
    final
    VALUE_GENERIC_TYPE value[] = this.value;
    final KEY_GENERIC_TYPE key[] = this.key;
    if ( containsNullKey && VALUE_EQUALS( value[ n ], v ) ) return true;
    for( int i = n; i-- != 0; ) if ( ! KEY_IS_NULL( key[ i ] ) && VALUE_EQUALS( value[ i ], v ) ) return true;
    return false;
}

/* Removes all elements from this map.
 *
 * <P>To increase object reuse, this method does not change the table size.
 * If you want to reduce the table size, you must use { @link #trim()}.
 *
 */
public void clear() {
    if ( size == 0 ) return;
    size = 0;
    containsNullKey = false;

    Arrays.fill( key, KEY_NULL );
    #if #values(reference)
    Arrays.fill( value, null );
    #endif

    #ifdef Linked
    first = last = -1;
    #endif
}

public int size() {
    return size;
}

public boolean isEmpty() {
    return size == 0;
}

/** A no-op for backward compatibility.
 *
 * @param growthFactor unused.
 * @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
 */
@Deprecated
public
void growthFactor( int growthFactor ) {}

```

```

/** Gets the growth factor (2).
 *
 * @return the growth factor of this set, which is fixed (2).
 * @see #growthFactor(int)
 * @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
 */
@Deprecated
public int growthFactor() {
    return 16;
}

/** The entry class for a hash map does not record key and value, but
 * rather the position in the hash table of the corresponding entry. This
 * is necessary so that calls to { @link java.util.Map.Entry#setValue(Object) } are reflected in
 * the map */

final class MapEntry implements MAP.Entry KEY_VALUE_GENERIC, Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> {
    // The table index this entry refers to, or -1 if this entry has been deleted.
    int index;

    MapEntry( final int index ) {
        this.index = index;
    }

    MapEntry() {}

#if #keys(primitive)
    /** { @inheritDoc }
     * @deprecated Please use the corresponding type-specific
     method instead. */
    @Deprecated
#endif
    public KEY_GENERIC_CLASS getKey() {
        return KEY2OBJ( key[ index ] );
    }

#if #keys(primitive)
    public KEY_TYPE ENTRY_GET_KEY() {
        return key[ index ];
    }
#endif

#if #values(primitive)
    /** { @inheritDoc }
     * @deprecated Please use the corresponding type-specific method instead. */

```

```

    @Deprecated
#endif
    public VALUE_GENERIC_CLASS getValue() {
        return VALUE2OBJ( value[ index ] );
    }

#if #values(primitive)
    public VALUE_GENERIC_TYPE ENTRY_GET_VALUE() {
        return value[ index ];
    }
#endif

    public VALUE_GENERIC_TYPE setValue( final VALUE_GENERIC_TYPE v ) {
        final VALUE_GENERIC_TYPE oldValue = value[ index ];
        value[ index ] = v;
        return oldValue;
    }

#if #values(primitive)

    public VALUE_GENERIC_CLASS setValue( final VALUE_GENERIC_CLASS v ) {
        return VALUE2OBJ( setValue( VALUE_CLASS2TYPE( v ) ) );
    }

#endif

    @SuppressWarnings("unchecked")
    public boolean equals( final Object o ) {
        if (!(o instanceof
Map.Entry)) return false;
        Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

        return KEY_EQUALS( key[ index ], KEY_CLASS2TYPE( e.getKey() ) ) && VALUE_EQUALS( value[ index ],
VALUE_CLASS2TYPE( e.getValue() ) );
    }

    public int hashCode() {
        return KEY2JAVAHASH( key[ index ] ) ^ VALUE2JAVAHASH( value[ index ] );
    }

    public String toString() {
        return key[ index ] + "=>" + value[ index ];
    }
}

```

```

#ifdef Linked

/** Modifies the { @link #link } vector so that the given entry is removed.
 * This method will complete in constant time.
 *
 * @param i the index of an entry.
 */
protected void fixPointers( final int i ) {
    if ( size == 0 ) {
        first = last = -1;
        return;
    }
    if ( first == i ) {
        first = GET_NEXT(link[ i ]);
        if ( 0 <= first ) {
            // Special case of SET_PREV( link[ first ], -1 )
            link[ first ] |= (-1 & 0xFFFFFFFFL) << 32;
        }
        return;
    }
    if ( last == i )
    {
        last = GET_PREV(link[ i ]);
        if ( 0 <= last ) {
            // Special case of SET_NEXT( link[ last ], -1 )
            link[ last ] |= -1 & 0xFFFFFFFFL;
        }
        return;
    }
    final long linki = link[ i ];
    final int prev = GET_PREV(linki);
    final int next = GET_NEXT(linki);
    COPY_NEXT(link[ prev ], linki);
    COPY_PREV(link[ next ], linki);
}

```

```

/** Modifies the { @link #link } vector for a shift from s to d.
 * <P>This method will complete in constant time.
 *
 * @param s the source position.
 * @param d the destination position.
 */
protected void fixPointers( int s, int d ) {
    if ( size == 1 ) {
        first = last = d;
        // Special case of SET_UPPER_LOWER( link[ d ], -1, -1 )
        link[ d ] = -1L;
    }
}

```

```

    return;
}
if ( first == s ) {
    first = d;
    SET_PREV( link[ GET_NEXT(link[ s ]) ], d );
    link[ d ] = link[ s ];
    return;
}
if ( last == s ) {
    last = d;
    SET_NEXT( link[ GET_PREV(link[ s ]) ], d );
    link[ d ] = link[ s ];
    return;
}
final long links = link[ s ];
final
int prev = GET_PREV(links);
final int next = GET_NEXT(links);
SET_NEXT( link[ prev ], d );
SET_PREV( link[ next ], d );
link[ d ] = links;
}

/** Returns the first key of this map in iteration order.
 *
 * @return the first key in iteration order.
 */
public KEY_GENERIC_TYPE FIRST_KEY() {
    if ( size == 0 ) throw new NoSuchElementException();
    return key[ first ];
}

/** Returns the last key of this map in iteration order.
 *
 * @return the last key in iteration order.
 */
public KEY_GENERIC_TYPE LAST_KEY() {
    if ( size == 0 ) throw new NoSuchElementException();
    return key[ last ];
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

public SORTED_MAP KEY_VALUE_GENERIC tailMap( KEY_GENERIC_TYPE from ) { throw new
UnsupportedOperationException(); }
public SORTED_MAP KEY_VALUE_GENERIC headMap( KEY_GENERIC_TYPE to ) { throw new

```

```

UnsupportedOperationException(); }
public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE
to ) { throw new UnsupportedOperationException(); }

/** A list iterator over a linked map.
 *
 * <P>This class provides a list iterator over a linked hash map. The constructor runs in constant time.
 */
private class MapIterator {
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#previous()} (or
    <code>>null</code> if no previous entry exists). */
    int prev = -1;
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>>null</code> if
    no next entry exists). */
    int next = -1;
    /** The last entry that was returned (or -1 if we did not iterate or used {@link java.util.Iterator#remove()}). */
    int curr = -1;
    /** The current index (in the sense of a {@link java.util.ListIterator}). Note that this value is not meaningful when
    this iterator has been created using the nonempty constructor.*/
    int index = -1;

    private MapIterator() {
        next = first;
        index = 0;
    }

    private MapIterator(
    final KEY_GENERIC_TYPE from ) {
        if ( KEY_EQUALS_NULL( from ) ) {
            if ( OPEN_HASH_MAP.this.containsNullKey ) {
                next = GET_NEXT( link[ n ] );
                prev = n;
                return;
            }
            else throw new NoSuchElementException( "The key " + from + " does not belong to this map." );
        }

        if ( KEY_EQUALS( key[ last ], from ) ) {
            prev = last;
            index = size;
            return;
        }

        // The starting point.
        int pos = KEY2INTHASH( from ) & mask;

```

```

// There's always an unused entry.
while( ! KEY_IS_NULL( key[ pos ] ) ) {
if ( KEY_EQUALS_NOT_NULL( key[ pos ], from ) ) {
// Note: no valid index known.
next = GET_NEXT( link[ pos ] );
prev = pos;
return;
}
pos = ( pos + 1 ) & mask;
}
throw new NoSuchElementException( "The key " + from + " does not belong to this map." );
}

```

```

public boolean hasNext() { return next != -1; }
public boolean hasPrevious() { return prev != -1; }

```

```

private final void ensureIndexKnown() {
if ( index
>= 0 ) return;
if ( prev == -1 ) {
index = 0;
return;
}
if ( next == -1 ) {
index = size;
return;
}
int pos = first;
index = 1;
while( pos != prev ) {
pos = GET_NEXT( link[ pos ] );
index++;
}
}

```

```

public int nextIndex() {
ensureIndexKnown();
return index;
}

```

```

public int previousIndex() {
ensureIndexKnown();
return index - 1;
}

```

```

public int nextEntry() {
if ( ! hasNext() ) throw new NoSuchElementException();
}

```

```

curr = next;
next = GET_NEXT(link[ curr ]);
prev = curr;

if ( index >= 0 ) index++;

return curr;
}

public int previousEntry() {
if ( ! hasPrevious() ) throw new NoSuchElementException();

curr = prev;
prev = GET_PREV(link[ curr ]);
next = curr;

if ( index >= 0 ) index--;

return curr;
}

public void remove() {
ensureIndexKnown();
if ( curr == -1 ) throw new IllegalStateException();

if ( curr == prev ) {
/* If the last operation was a next(),
we are removing an entry that precedes
the current index, and thus we must decrement it. */
index--;
prev = GET_PREV(link[ curr ]);
}
else
next = GET_NEXT(link[ curr ]);

size--;
/* Now we manually fix the pointers. Because of our knowledge of next
and prev, this is going to be faster than calling fixPointers(). */
if ( prev == -1 ) first = next;
else
SET_NEXT( link[ prev ], next );
if ( next == -1 ) last = prev;
else
SET_PREV( link[ next ], prev );

int last, slot, pos = curr;
curr = -1;

```

```

    if ( pos == n ) {
        OPEN_HASH_MAP.this.containsNullKey = false;
    }
    #if #keys(reference)
        key[ n ] = null;
    #endif
    #if #values(reference)
        value[ n ] = null;
    #endif
}
else {
    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;
    // We have to horribly duplicate the shiftKeys() code because we need to update next/prev.
    for(;;) {
        pos = ( ( last = pos ) + 1 ) & mask;
        for(;;)
        {
            if ( KEY_IS_NULL( curr = key[ pos ] ) ) {
                key[ last ] = KEY_NULL;
            }
            #if #values(reference)
                value[ last ] = null;
            #endif
            #endif
            return;
        }
        slot = KEY2INTHASH( curr ) & mask;
        if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
        pos = ( pos + 1 ) & mask;
    }

    key[ last ] = curr;
    value[ last ] = value[ pos ];
    if ( next == pos ) next = last;
    if ( prev == pos ) prev = last;
    fixPointers( pos, last );
}
}
}

public int skip( final int n ) {
    int i = n;
    while( i-- != 0 && hasNext() ) nextEntry();
    return n - i - 1;
}

public int back( final int n ) {
    int i = n;
    while( i-- != 0 && hasPrevious() ) previousEntry();
}

```

```

    return n - i - 1;
}
}

private class EntryIterator extends MapIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
    private MapEntry entry;

    public EntryIterator() {}

    public EntryIterator( KEY_GENERIC_TYPE from ) {
        super(
from );
    }

    public MapEntry next() {
        return entry = new MapEntry( nextEntry() );
    }

    public MapEntry previous() {
        return entry = new MapEntry( previousEntry() );
    }

    @Override
    public void remove() {
        super.remove();
        entry.index = -1; // You cannot use a deleted entry.
    }

    public void set( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
    public void add( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
}

private class FastEntryIterator extends MapIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
    final MapEntry entry = new MapEntry();

    public FastEntryIterator() {}

    public FastEntryIterator( KEY_GENERIC_TYPE from ) {
        super( from );
    }

    public MapEntry next() {
        entry.index = nextEntry();
        return entry;
    }
}

```

```

public MapEntry previous() {
    entry.index = previousEntry();
    return entry;
}

public void set( MAP.Entry KEY_VALUE_GENERIC ok ) { throw
new UnsupportedOperationException(); }
public void add( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
}

#else

/** An iterator over a hash map. */

private class MapIterator {
    /** The index of the last entry returned, if positive or zero; initially, { @link #n}. If negative, the last
    entry returned was that of the key of index { @code - pos - 1} from the { @link #wrapped} list. */
    int pos = n;
    /** The index of the last entry that has been returned (more precisely, the value of { @link #pos} if { @link #pos} is
    positive,
    or { @link Integer#MIN_VALUE} if { @link #pos} is negative). It is -1 if either
    we did not return an entry yet, or the last returned entry has been removed. */
    int last = -1;
    /** A downward counter measuring how many entries must still be returned. */
    int c = size;
    /** A boolean telling us whether we should return the entry with the null key. */
    boolean mustReturnNullKey = OPEN_HASH_MAP.this.containsNullKey;
    /**
    A lazily allocated list containing keys of entries that have wrapped around the table because of removals. */
    ARRAY_LIST KEY_GENERIC wrapped;

    public boolean hasNext() {
        return c != 0;
    }

    public int nextEntry() {
        if ( ! hasNext() ) throw new NoSuchElementException();

        c--;
        if ( mustReturnNullKey ) {
            mustReturnNullKey = false;
            return last = n;
        }

        final KEY_GENERIC_TYPE key[] = OPEN_HASH_MAP.this.key;

        for(;;) {
            if ( --pos < 0 ) {

```

```

// We are just enumerating elements from the wrapped list.
last = Integer.MIN_VALUE;
final KEY_GENERIC_TYPE k = wrapped.GET_KEY( - pos - 1 );
int p = KEY2INTHASH( k ) & mask;
while ( ! KEY_EQUALS_NOT_NULL( k, key[ p ] ) ) p = ( p + 1 ) & mask;
return p;
}
if ( ! KEY_IS_NULL( key[ pos ] ) ) return last = pos;
}
}

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
private final void shiftKeys( int pos ) {
// Shift entries with the same hash.
int last, slot;
KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;

for(;;) {
pos = ( ( last = pos ) + 1 ) & mask;

for(;;) {
if ( KEY_IS_NULL( curr = key[ pos ] ) ) {
key[ last ] = KEY_NULL;
#if #values(reference)
value[ last ] = null;
#endif
return;
}
slot = KEY2INTHASH( curr ) & mask;
if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
pos = ( pos + 1 ) & mask;
}

if ( pos < last ) { // Wrapped entry.
if ( wrapped == null ) wrapped = new ARRAY_LIST KEY_GENERIC( 2 );
wrapped.add( key[ pos ] );
}

key[ last ] = curr;
value[ last ] = value[ pos ];
}
}

```

```

public void remove() {
    if ( last == -1 ) throw new IllegalStateException();
    if ( last == n ) {
        containsNullKey = false;
#ifdef #keys(reference)
        key[
n ] = null;
#endif
#ifdef #values(reference)
        value[ n ] = null;
#endif
    }
    else if ( pos >= 0 ) shiftKeys( last );
    else {
        // We're removing wrapped entries.
#ifdef #keys(reference)
        OPEN_HASH_MAP.this.remove( wrapped.set( - pos - 1, null ) );
#else
        OPEN_HASH_MAP.this.remove( wrapped.GET_KEY( - pos - 1 ) );
#endif
        last = -1; // Note that we must not decrement size
        return;
    }

    size--;
    last = -1; // You can no longer remove this entry.
    if ( ASSERTS ) checkTable();
}

public int skip( final int n ) {
    int i = n;
    while( i-- != 0 && hasNext() ) nextEntry();
    return n - i - 1;
}
}

private class EntryIterator extends MapIterator implements ObjectIterator<MAP.Entry KEY_VALUE_GENERIC>
{
    private MapEntry entry;

    public MAP.Entry KEY_VALUE_GENERIC next() {
        return entry = new MapEntry( nextEntry() );
    }

    @Override
    public void remove() {

```

```

    super.remove();
    entry.index = -1; // You cannot use a deleted entry.
}
}

private
class FastEntryIterator extends MapIterator implements ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> {
    private final MapEntry entry = new MapEntry();
    public MapEntry next() {
        entry.index = nextEntry();
        return entry;
    }
}

#endif

#ifdef Linked
    private final class MapEntrySet extends AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>
    implements FastSortedEntrySet KEY_VALUE_GENERIC {

        public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
            return new EntryIterator();
        }

        public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() { return null; }
        public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet( MAP.Entry KEY_VALUE_GENERIC
        fromElement, MAP.Entry KEY_VALUE_GENERIC toElement) { throw new UnsupportedOperationException(); }
        public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet( MAP.Entry KEY_VALUE_GENERIC
        toElement ) { throw new UnsupportedOperationException(); }
        public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>
        tailSet( MAP.Entry KEY_VALUE_GENERIC fromElement ) { throw new UnsupportedOperationException(); }

        public MAP.Entry KEY_VALUE_GENERIC first() {
            if ( size == 0 ) throw new NoSuchElementException();
            return new MapEntry( OPEN_HASH_MAP.this.first );
        }

        public MAP.Entry KEY_VALUE_GENERIC last() {
            if ( size == 0 ) throw new NoSuchElementException();
            return new MapEntry( OPEN_HASH_MAP.this.last );
        }
    }

#else
    private final class MapEntrySet extends AbstractObjectSet<MAP.Entry KEY_VALUE_GENERIC> implements

```

```

FastEntrySet KEY_VALUE_GENERIC {

    public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
        return new EntryIterator();
    }

    public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator() {
        return new FastEntryIterator();
    }
}

#endif

@SuppressWarnings("unchecked")
public boolean contains( final Object o ) {
    if ( !( o instanceof Map.Entry ) ) return false;
    final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

    final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE( e.getKey() );

    if ( KEY_EQUALS_NULL( k ) ) return ( OPEN_HASH_MAP.this.containsNullKey && VALUE_EQUALS(
value[ n ], VALUE_CLASS2TYPE( e.getValue() ) ) );

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL( k, curr ) ) return VALUE_EQUALS( value[ pos ], VALUE_CLASS2TYPE(
e.getValue() ) );
    // There's always an unused entry.
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return false;
        if ( KEY_EQUALS_NOT_NULL( k, curr ) ) return VALUE_EQUALS( value[ pos ], VALUE_CLASS2TYPE(
e.getValue() ) );
    }
}

@SuppressWarnings("unchecked")
public boolean remove( final Object o ) {
    if ( !( o instanceof Map.Entry ) ) return false;
    final Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;

    final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE( e.getKey() );
    final VALUE_GENERIC_TYPE v = VALUE_CLASS2TYPE( e.getValue() );

```

```

if ( KEY_EQUALS_NULL( k ) ) {
    if ( containsNullKey && VALUE_EQUALS( value[ n ], v ) ) {
        removeNullEntry();
        return true;
    }
    return false;
}

KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;
int pos;

// The starting point.
if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) return false;
if ( KEY_EQUALS_NOT_NULL( curr, k ) ) {
    if ( VALUE_EQUALS( value[ pos ], v ) ) {
        removeEntry( pos );
        return true;
    }
    return false;
}

while( true ) {
    if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL( curr, k ) ) {
        if ( VALUE_EQUALS( value[ pos ], v ) ) {
            removeEntry( pos );
            return true;
        }
    }
}

public int size() {
    return size;
}

public void clear() {
    OPEN_HASH_MAP.this.clear();
}

#ifdef Linked
    public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator( final MAP.Entry
KEY_VALUE_GENERIC from ) {
        #if #keys(primitive)
            return new EntryIterator( from.ENTRY_GET_KEY() );
        #else

```

```

    return new EntryIterator( KEY_CLASS2TYPE( from.getKey() ) );
#endif
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator() {
    return new FastEntryIterator();
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator( final MAP.Entry
KEY_VALUE_GENERIC from ) {
#if #keys(primitive)
    return new FastEntryIterator( from.ENTRY_GET_KEY() );
#else
    return new FastEntryIterator( KEY_CLASS2TYPE( from.getKey() ) );
#endif
}

#endif
}

#ifdef Linked
public FastSortedEntrySet KEY_VALUE_GENERIC ENTRYSET() {
    if ( entries == null ) entries = new MapEntrySet();
#else
public FastEntrySet KEY_VALUE_GENERIC
ENTRYSET() {
    if ( entries == null ) entries = new MapEntrySet();
#endif
return entries;
}

/** An iterator on keys.
 *
 * <P>We simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()}
methods
 * (and possibly their type-specific counterparts) so that they return keys
 * instead of entries.
 */

#ifdef Linked
private final class KeyIterator extends MapIterator implements KEY_LIST_ITERATOR KEY_GENERIC {
public KeyIterator( final KEY_GENERIC_TYPE k ) { super( k ); }
public KEY_GENERIC_TYPE PREV_KEY() { return key[ previousEntry() ]; }
public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
public void add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
#if ! #keys(reference)

```

```

public KEY_GENERIC_CLASS previous() { return KEY2OBJ( key[ previousEntry() ] ); }
public void set( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
public void add( KEY_CLASS
ok ) { throw new UnsupportedOperationException(); }
#endif

#else
private final class KeyIterator extends MapIterator implements KEY_ITERATOR KEY_GENERIC {
#endif

public KeyIterator() { super(); }
public KEY_GENERIC_TYPE NEXT_KEY() { return key[ nextEntry() ]; }
#if ! #keys(reference)
public KEY_GENERIC_CLASS next() { return KEY2OBJ( key[ nextEntry() ] ); }
#endif
}

#ifdef Linked
private final class KeySet extends ABSTRACT_SORTED_SET KEY_GENERIC {

public KEY_LIST_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) {
return new KeyIterator( from );
}

public KEY_LIST_ITERATOR KEY_GENERIC iterator() {
return new KeyIterator();
}
#else
private final class KeySet extends ABSTRACT_SET KEY_GENERIC {

public KEY_ITERATOR KEY_GENERIC iterator() {
return new KeyIterator();
}
#endif

public int size() {
return size;
}

public boolean contains( KEY_TYPE k ) {
return containsKey( k );
}

public boolean remove( KEY_TYPE k ) {
final

```

```

int oldSize = size;
    OPEN_HASH_MAP.this.remove( k );
    return size != oldSize;
}

public void clear() {
    OPEN_HASH_MAP.this.clear();
}

#ifdef Linked
public KEY_GENERIC_TYPE FIRST() {
    if ( size == 0 ) throw new NoSuchElementException();
    return key[ first ];
}

public KEY_GENERIC_TYPE LAST() {
    if ( size == 0 ) throw new NoSuchElementException();
    return key[ last ];
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

final public SORTED_SET KEY_GENERIC tailSet( KEY_GENERIC_TYPE from ) { throw new
UnsupportedOperationException(); }
final public SORTED_SET KEY_GENERIC headSet( KEY_GENERIC_TYPE to ) { throw new
UnsupportedOperationException(); }
final public SORTED_SET KEY_GENERIC subSet( KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to ) {
throw new UnsupportedOperationException(); }
#endif
}

#ifdef Linked
public SORTED_SET KEY_GENERIC keySet() {
#else
public SET KEY_GENERIC keySet() {
#endif
    if ( keys == null )
        keys = new KeySet();
    return keys;
}

/** An iterator on values.
 *
 * <P>We simply override the { @link java.util.ListIterator#next()}/{ @link java.util.ListIterator#previous()}
methods

```

```

* (and possibly their type-specific counterparts) so that they return values
* instead of entries.
*/

#ifndef Linked
private final class ValueIterator extends MapIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
    public VALUE_GENERIC_TYPE PREV_VALUE() { return value[ previousEntry() ]; }

    #if ! #values(reference)
        public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ( value[ previousEntry() ] ); }
        public void set( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
        public void add( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
    #endif

    public void set( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
    public void add( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
    #else
    private final class ValueIterator
    extends MapIterator implements VALUE_ITERATOR VALUE_GENERIC {
    #endif

        public ValueIterator() { super(); }
        public VALUE_GENERIC_TYPE NEXT_VALUE() { return value[ nextEntry() ]; }
    #if ! #values(reference)
        /** { @inheritDoc }
         * @deprecated Please use the corresponding type-specific method instead. */
        @Deprecated
        @Override
        public VALUE_GENERIC_CLASS next() { return VALUE2OBJ( value[ nextEntry() ] ); }
    #endif
    }

    public VALUE_COLLECTION VALUE_GENERIC values() {
    if ( values == null ) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {

        public VALUE_ITERATOR VALUE_GENERIC iterator() {
            return new ValueIterator();
        }

        public int size() {
            return size;
        }

        public boolean contains( VALUE_TYPE v ) {
            return containsValue( v );
        }

        public void clear() {
            OPEN_HASH_MAP.this.clear();

```

```

    }
};

return values;
}

/** A no-op for backward compatibility. The kind of tables implemented by
 * this class never need rehashing.
 *
 * <P>If you need to reduce the table size to fit exactly
 * this set, use { @link #trim() }.
 *
 * @return true.
 * @see #trim()
 * @deprecated A no-op.
 */

@Deprecated
public boolean rehash() {
    return true;
}

/** Rehashes the map, making the table as small as possible.
 *
 * <P>This method rehashes the table to the smallest size satisfying the
 * load factor. It can be used when the set will not be changed anymore, so
 * to optimize access speed and size.
 *
 * <P>If the table size is already the minimum possible, this method
 * does nothing.
 *
 * @return true if there was enough memory to trim the map.
 * @see #trim(int)
 */

public boolean trim() {
    final int l = arraySize( size, f );
    if ( l >= n || size > maxFill( l, f ) ) return true;
    try {
        rehash( l );
    }
    catch(OutOfMemoryError cantDoIt) { return false; }
    return true;
}

```

```

/** Rehashes this map if the table is too large.
 *
 * <P>Let <var>N</var> be the smallest table size that
can hold
 * <code>max(n,{ @link #size()})</code> entries, still satisfying the load factor. If the current
 * table size is smaller than or equal to <var>N</var>, this method does
 * nothing. Otherwise, it rehashes this map in a table of size
 * <var>N</var>.
 *
 * <P>This method is useful when reusing maps. { @linkplain #clear() Clearing a
 * map} leaves the table size untouched. If you are reusing a map
 * many times, you can call this method with a typical
 * size to avoid keeping around a very large table just
 * because of a few large transient maps.
 *
 * @param n the threshold for the trimming.
 * @return true if there was enough memory to trim the map.
 * @see #trim()
 */

```

```

public boolean trim( final int n ) {
    final int l = HashCommon.nextPowerOfTwo( (int)Math.ceil( n / f ) );
    if ( l >= n || size > maxFill( l, f ) ) return true;
    try {
        rehash( l );
    }
    catch( OutOfMemoryError cantDoIt ) { return false; }
    return true;
}

```

```

/** Rehashes the map.
 *
 *
 * <P>This method implements the basic rehashing strategy, and may be
 * overridden by subclasses implementing different rehashing strategies (e.g.,
 * disk-based rehashing). However, you should not override this method
 * unless you understand the internal workings of this class.
 *
 * @param newN the new size
 */

```

```

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
protected void rehash( final int newN ) {
    final KEY_GENERIC_TYPE key[] = this.key;
    final VALUE_GENERIC_TYPE value[] = this.value;

    final int mask = newN - 1; // Note that this is used by the hashing macro

```

```

final KEY_GENERIC_TYPE newKey[] = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ newN + 1 ];
final VALUE_GENERIC_TYPE newValue[] = VALUE_GENERIC_ARRAY_CAST new VALUE_TYPE[ newN
+ 1 ];

#ifdef Linked
int i = first, prev = -1, newPrev = -1, t, pos;
final long link[] = this.link;
final long newLink[] = new long[ newN + 1 ];
first = -1;

for( int j = size; j-- != 0; ) {
if ( KEY_EQUALS_NULL( key[ i ] ) ) pos = newN;
else
{
pos = KEY2INTHASH( key[ i ] ) & mask;
while ( ! KEY_IS_NULL( newKey[ pos ] ) ) pos = ( pos + 1 ) & mask;
}

newKey[ pos ] = key[ i ];
newValue[ pos ] = value[ i ];

if ( prev != -1 ) {
SET_NEXT( newLink[ newPrev ], pos );
SET_PREV( newLink[ pos ], newPrev );
newPrev = pos;
}
else {
newPrev = first = pos;
// Special case of SET(newLink[ pos ], -1, -1);
newLink[ pos ] = -1L;
}

t = i;
i = GET_NEXT(link[ i ]);
prev = t;
}

this.link = newLink;
this.last = newPrev;
if ( newPrev != -1 )
// Special case of SET_NEXT( newLink[ newPrev ], -1 );
newLink[ newPrev ] |= -1 & 0xFFFFFFFFL;
#else
int i = n, pos;

for( int j = realSize(); j-- != 0; ) {
while( KEY_IS_NULL( key[ --i ] ) );

```

```

if ( ! KEY_IS_NULL( newKey[ pos = KEY2INTHASH( key[ i ] ) & mask ] ) )
while ( ! KEY_IS_NULL( newKey[ pos = ( pos + 1 ) & mask ] ) );

newKey[ pos ] = key[ i ];
newValue[ pos ] = value[ i ];
}

newValue[ newN
] = value[ n ];

#endif

n = newN;
this.mask = mask;
maxFill = maxFill( n, f );
this.key = newKey;
this.value = newValue;
}

/** Returns a deep copy of this map.
 *
 * <P>This method performs a deep copy of this hash map; the data stored in the
 * map, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this map.
 */

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public OPEN_HASH_MAP KEY_VALUE_GENERIC clone() {
OPEN_HASH_MAP KEY_VALUE_GENERIC c;
try {
c = (OPEN_HASH_MAP KEY_VALUE_GENERIC)super.clone();
}
catch(CloneNotSupportedException cantHappen) {
throw new InternalError();
}

c.keys = null;
c.values = null;
c.entries = null;
c.containsNullKey = containsNullKey;

c.key = key.clone();
c.value = value.clone();
#ifdef Linked
c.link = link.clone();
#endif

```

```

#ifdef Custom
    c.strategy = strategy;
#endif
return c;
}

/** Returns a hash code for this map.
 *
 * This method overrides
the generic method provided by the superclass.
 * Since equals() is not overridden, it is important
 * that the value returned by this method is the same value as
 * the one returned by the overridden method.
 *
 * @return a hash code for this map.
 */

public int hashCode() {
    int h = 0;
    for( int j = realSize(), i = 0, t = 0; j-- != 0; ) {
        while( KEY_IS_NULL( key[ i ] ) ) i++;
#ifdef #keys(reference)
        if ( this != key[ i ] )
#endif
            t = KEY2JAVAHASH_NOT_NULL( key[ i ] );
#ifdef #values(reference)
        if ( this != value[ i ] )
#endif
            t ^= VALUE2JAVAHASH( value[ i ] );
        h += t;
        i++;
    }
    // Zero / null keys have hash zero.
    if ( containsNullKey ) h += VALUE2JAVAHASH( value[ n ] );
    return h;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    final KEY_GENERIC_TYPE key[] = this.key;
    final VALUE_GENERIC_TYPE value[] = this.value;
    final MapIterator i = new MapIterator();

    s.defaultWriteObject();

    for(

```

```

int j = size, e; j-- != 0; ) {
    e = i.nextEntry();
    s.WRITE_KEY( key[ e ] );
    s.WRITE_VALUE( value[ e ] );
}
}

```

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED

```

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();

```

```

    n = arraySize( size, f );
    maxFill = maxFill( n, f );
    mask = n - 1;

```

```

    final KEY_GENERIC_TYPE key[] = this.key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ n + 1 ];
    final VALUE_GENERIC_TYPE value[] = this.value = VALUE_GENERIC_ARRAY_CAST new VALUE_TYPE[
n + 1 ];

```

```

#ifdef Linked

```

```

    final long link[] = this.link = new long[ n + 1 ];
    int prev = -1;
    first = last = -1;

```

```

#endif

```

```

    KEY_GENERIC_TYPE k;
    VALUE_GENERIC_TYPE v;

```

```

for( int i = size, pos; i-- != 0; ) {

```

```

    k = KEY_GENERIC_CAST s.READ_KEY();
    v = VALUE_GENERIC_CAST s.READ_VALUE();

```

```

    if ( KEY_EQUALS_NULL( k ) ) {

```

```

        pos = n;
        containsNullKey = true;
    }

```

```

    else {

```

```

        pos = KEY2INTHASH( k ) & mask;
        while ( ! KEY_IS_NULL( key[
pos ] ) ) pos = ( pos + 1 ) & mask;
    }

```

```

    key[ pos ] = k;
    value[ pos ] = v;

```

```

#ifdef Linked

```

```

if ( first != -1 ) {
    SET_NEXT( link[ prev ], pos );
    SET_PREV( link[ pos ], prev );
    prev = pos;
}
else {
    prev = first = pos;
    // Special case of SET_PREV( newLink[ pos ], -1 );
    link[ pos ] |= (-1L & 0xFFFFFFFFL) << 32;
}
#endif
}

#ifdef Linked
    last = prev;
    if ( prev != -1 )
        // Special case of SET_NEXT( link[ prev ], -1 );
        link[ prev ] |= -1 & 0xFFFFFFFFL;
#endif

if ( ASSERTS ) checkTable();
}

#ifdef ASSERTS_CODE
private void checkTable() {
    assert ( n & -n ) == n : "Table length is not a power of two: " + n;
    assert n == key.length - 1;
    int n = key.length - 1;
    while( n-- != 0 )
        if ( ! KEY_IS_NULL( key[ n ] ) && ! containsKey( key[ n ] ) )
            throw new AssertionError( "Hash table has key " + key[ n ] + " marked as occupied, but the key does not belong to
the table" );

    #if #keys(primitive)
        java.util.HashSet<KEY_GENERIC_CLASS>
        s = new java.util.HashSet<KEY_GENERIC_CLASS> ();
    #else
        java.util.HashSet<Object> s = new java.util.HashSet<Object>();
    #endif

    for( int i = key.length; i-- != 0; )
        if ( ! KEY_IS_NULL( key[ i ] ) && ! s.add( key[ i ] ) ) throw new AssertionError( "Key " + key[ i ] + " appears
twice at position " + i );

#ifdef Linked
    KEY_BIDI_ITERATOR KEY_GENERIC i = keySet().iterator();

```

```

KEY_GENERIC_TYPE k;
n = size();
while( n-- != 0 )
    if ( ! containsKey( k = i.NEXT_KEY() ) )
        throw new AssertionError( "Linked hash table forward enumerates key " + k + ", but the key does not belong to the
table" );

if ( i.hasNext() ) throw new AssertionError( "Forward iterator not exhausted" );

n = size();
if ( n > 0 ) {
    i = keySet().iterator( LAST_KEY() );
    while( n-- != 0 )
        if ( ! containsKey( k = i.PREV_KEY() ) )
            throw new AssertionError( "Linked hash table backward enumerates key " + k + ", but the key does not belong to
the table" );

    if ( i.hasPrevious()
) throw new AssertionError( "Previous iterator not exhausted" );
}
#endif
}
#else
private void checkTable() {}
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
#ifdef keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
    return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
    return r.NEXT_KEY();
#elif !#keyclass(Reference)
#ifdef Custom
        int i = r.nextInt( 3 );
        byte a[] = new byte[ i ];
        while( i-- != 0 ) a[ i ] = (byte)r.nextInt();
        return a;
#else
        return Integer.toBinaryString( r.nextInt() );
#endif
#else
        return new java.io.Serializable() {};
#endif
}

```

```

#endif
}

private static VALUE_TYPE genValue() {
#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
    return (VALUE_TYPE)(r.nextInt());
#elif #values(primitive)
    return r.NEXT_VALUE();
#elif !#valueclass(Reference)
    return Integer.toBinaryString( r.nextInt() );
#else
    return
new java.io.Serializable() {};
#endif
}

private static final class ArrayComparator implements java.util.Comparator {
public int compare( Object a, Object b ) {
    byte[] aa = (byte[])a;
    byte[] bb = (byte[])b;
    int length = Math.min( aa.length, bb.length );
    for( int i = 0; i < length; i++ ) {
        if ( aa[ i ] < bb[ i ] ) return -1;
        if ( aa[ i ] > bb[ i ] ) return 1;
    }
    return aa.length == bb.length ? 0 : ( aa.length < bb.length ? -1 : 1 );
}
}

private static final class MockMap extends java.util.TreeMap {
private java.util.List list = new java.util.ArrayList();

public MockMap( java.util.Comparator c ) { super( c ); }

public Object put( Object k, Object v ) {
    if ( ! containsKey( k ) ) list.add( k );
    return super.put( k, v );
}

public void putAll( Map m ) {
    java.util.Iterator i = m.entrySet().iterator();
    while( i.hasNext() ) {
        Map.Entry e = (Map.Entry)i.next();
        put( e.getKey(), e.getValue() );
    }
}

public Object

```

```

remove( Object k ) {
    if ( containsKey( k ) ) {
        int i = list.size();
        while( i-- != 0 ) if ( comparator().compare( list.get( i ), k ) == 0 ) {
            list.remove( i );
            break;
        }
    }
    return super.remove( k );
}

private void justRemove( Object k ) { super.remove( k ); }
private java.util.Set justEntrySet() { return super.entrySet(); }
private java.util.Set justKeySet() { return super.keySet(); }

public java.util.Set keySet() {
    return new java.util.AbstractSet() {
        final java.util.Set keySet = justKeySet();

        public boolean contains( Object k ) { return keySet.contains( k ); }
        public int size() { return keySet.size(); }
        public java.util.Iterator iterator() {
            return new java.util.Iterator() {
                final java.util.Iterator iterator = list.iterator();
                Object curr;
                public Object next() { return curr = iterator.next(); }
                public boolean hasNext() { return iterator.hasNext(); }
                public void remove()
            {
                justRemove( curr );
                iterator.remove();
            }
        };
    }
};

}

public java.util.Set entrySet() {
    return new java.util.AbstractSet() {
        final java.util.Set entrySet = justEntrySet();

        public boolean contains( Object k ) { return entrySet.contains( k ); }
        public int size() { return entrySet.size(); }
        public java.util.Iterator iterator() {
            return new java.util.Iterator() {
                final java.util.Iterator iterator = list.iterator();

```

```

    Object curr;
    public Object next() {
        curr = iterator.next();
#ifdef #valueclass(Reference)
#ifdef #keyclass(Reference)
        return new ABSTRACT_MAP.BasicEntry( (Object)curr, (Object)get(curr) ) {
#else
        return new ABSTRACT_MAP.BasicEntry( (KEY_CLASS)curr, (Object)get(curr) ) {
#endif
#else
#ifdef #keyclass(Reference)
        return new ABSTRACT_MAP.BasicEntry( (Object)curr, (VALUE_CLASS)get(curr) ) {
#else
        return new ABSTRACT_MAP.BasicEntry( (KEY_CLASS)curr,
(VALUE_CLASS)get(curr) ) {
#endif
#endif
        public VALUE_TYPE setValue( VALUE_TYPE v ) {
            return VALUE_OBJ2TYPE(put( getKey(), VALUE2OBJ(v) ));
        }
    };
}
public boolean hasNext() { return iterator.hasNext(); }
public void remove() {
    justRemove( ((Map.Entry)curr).getKey() );
    iterator.remove();
}
};

}
};

}
}

```

```

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

```

```

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, fp ).toString();
}

```

```

private static void speedTest( int n, float f, boolean comp ) {
#ifdef Custom
    int i, j;

```

```

OPEN_HASH_MAP m;
#ifdef Linked
    java.util.LinkedHashMap t;
#else
    java.util.HashMap t;
#endif
KEY_TYPE k[] = new KEY_TYPE[n];
KEY_TYPE nk[] = new KEY_TYPE[n];
VALUE_TYPE
v[] = new VALUE_TYPE[n];
long ns;

for( i = 0; i < n; i++ ) {
    k[i] = genKey();
    nk[i] = genKey();
    v[i] = genValue();
}

double totPut = 0, totYes = 0, totNo = 0, totIter = 0, totRemYes = 0, totRemNo = 0, d;

if ( comp ) { for( j = 0; j < 20; j++ ) {

#ifdef Linked
    t = new java.util.LinkedHashMap( 16 );
#else
    t = new java.util.HashMap( 16 );
#endif

    /* We put pairs to t. */
    ns = System.nanoTime();
    for( i = 0; i < n; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );
    d = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totPut += d;
    System.out.print("Put: " + format( d ) + "ns ");

    /* We check for pairs in t. */
    ns = System.nanoTime();
    for( i = 0; i < n; i++ ) t.containsKey( KEY2OBJ( k[i] ) );
    d = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totYes += d;
    System.out.print("Yes: " + format( d ) + "ns ");

    /* We check for pairs not in t. */
    ns = System.nanoTime();
    for( i = 0; i < n; i++
) t.containsKey( KEY2OBJ( nk[i] ) );
    d = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totNo += d;

```

```

System.out.print("No: " + format( d ) + "ns " );

/* We iterate on t. */
ns = System.nanoTime();
for( java.util.Iterator it = t.entrySet().iterator(); it.hasNext(); it.next() );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totIter += d;
System.out.print("Iter: " + format( d ) + "ns " );

/* We delete pairs not in t. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) t.remove( KEY2OBJ( nk[i] ) );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemNo += d;
System.out.print("RemNo: " + format( d ) + "ns " );

/* We delete pairs in t. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemYes += d;
System.out.print("RemYes: " + format( d ) + "ns " );

System.out.println();
}

System.out.println();
System.out.println(
"java.util Put: " + format( totPut/(j-3) ) + "ns Yes: " + format( totYes/(j-3) ) + "ns No: " + format( totNo/(j-3) ) + "ns
Iter: " + format( totIter/(j-3) ) + "ns RemNo: " + format( totRemNo/(j-3) ) + "ns RemYes: " + format( totRemYes/(j-
3) ) + "K/s" );

System.out.println();

totPut = totYes = totNo = totIter = totRemYes = totRemNo = 0;

}

for( j = 0; j < 20; j++ ) {

m = new OPEN_HASH_MAP( 16, f );

/* We put pairs to m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.put( k[i], v[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totPut += d;
System.out.print("Put: " + format( d ) + "ns " );

```

```

/* We check for pairs in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.containsKey( k[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + "ns " );

/* We check for pairs not in m. */
ns =
System.nanoTime();
for( i = 0; i < n; i++ ) m.containsKey( nk[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + "ns " );

/* We iterate on m. */
ns = System.nanoTime();
for( java.util.Iterator it = m.entrySet().iterator(); it.hasNext(); it.next() );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totIter += d;
System.out.print("Iter: " + format( d ) + "ns " );

/* We delete pairs not in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.remove( nk[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemNo += d;
System.out.print("RemNo: " + format( d ) + "ns " );

/* We delete pairs in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.remove( k[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemYes += d;
System.out.print("RemYes: " + format( d ) + "ns " );

System.out.println();
}

System.out.println();
System.out.println(
"fastutil Put: " + format( totPut/(j-3) ) + "ns Yes: " + format( totYes/(j-3) ) + "ns No: " + format( totNo/(j-3) ) + "ns
Iter: " + format( totIter/(j-3) ) + "ns RemNo: " + format( totRemNo/(j-3) ) + "ns RemYes: " + format( totRemYes/(j-
3) ) + "ns" );

System.out.println();

```

```

#endif
}

private static boolean valEquals(Object o1, Object o2) {
    return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

protected static void test( int n, float f ) {
    #if !defined(Custom) || #keys(reference)

    #ifdef Custom
        OPEN_HASH_MAP m = new OPEN_HASH_MAP(Hash.DEFAULT_INITIAL_SIZE, f,
it.unimi.dsi.fastutil.bytes.ByteArrays.HASH_STRATEGY);
    #else
        OPEN_HASH_MAP m = new OPEN_HASH_MAP(Hash.DEFAULT_INITIAL_SIZE, f);
    #endif

    #ifdef Linked
    #ifdef Custom
        Map t = new MockMap(
            new ArrayComparator() );
    #else
        Map t = new java.util.LinkedHashMap();
    #endif
    #else
    #ifdef Custom
        Map t = new java.util.TreeMap(new ArrayComparator());
    #else
        Map t = new java.util.HashMap();
    #endif
    #endif

    /* First of all, we fill t with random data. */

    for(int i=0; i<n; i++ ) t.put( KEY2OBJ(genKey()), VALUE2OBJ(genValue()) );

    /* Now we add to m the same data */

```

```

m.putAll(t);

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after insertion");

/* Now we check that m actually holds that data. */

for(java.util.Iterator i=t.entrySet().iterator(); i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    if (!t.equals(e.getValue(), m.get(e.getKey())))
        System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after insertion (iterating on t)");
}

/* Now we check that m actually holds
that data, but iterating on m. */

for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    if (!t.equals(e.getValue(), t.get(e.getKey())))
        System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after insertion (iterating on m)");
}

/* Now we check that m actually holds the same keys. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!m.containsKey(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ") after insertion (iterating on t)");
        System.exit( 1 );
    }
    if (!m.keySet().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ", in keySet()) after insertion (iterating on t)");
        System.exit( 1 );
    }
}

/* Now we check that m actually holds the same keys, but iterating on m. */

for(java.util.Iterator i=m.keySet().iterator(); i.hasNext();
) {
    Object o = i.next();
    if (!t.containsKey(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key after insertion (iterating on m)");
        System.exit( 1 );
    }
    if (!t.keySet().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (in keySet()) after insertion (iterating on m)");
        System.exit( 1 );
    }
}

```

```

}
}

/* Now we check that m actually hold the same values. */

for(java.util.Iterator i=t.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!m.containsValue(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value after insertion (iterating on t)");
        System.exit( 1 );
    }
    if (!m.values().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after insertion (iterating on t)");
        System.exit( 1 );
    }
}

/* Now we check that m actually hold the same values, but iterating on m. */

for(java.util.Iterator
i=m.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!t.containsValue(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value after insertion (iterating on m)");
        System.exit( 1 );
    }
    if (!t.values().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after insertion (iterating on m)");
        System.exit( 1 );
    }
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    if (m.containsKey(KEY2OBJ(T)) != t.containsKey(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in keys between t and m (polymorphic method)");
        System.exit( 1 );
    }
}

#if ( #keys(reference) ) && ! ( #values(reference) )
    if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
    t.get(KEY2OBJ(T))

```

```

!= null &&
    ! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T)))
#else
    if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
        t.get(KEY2OBJ(T)) != null &&
            ! m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
    {
        System.out.println("Error (" + seed + "): divergence between t and m (polymorphic method)");
        System.exit( 1 );
    }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    if (!valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T)))) {
        System.out.println("Error (" + seed + "): divergence between t and m (standard method)");
        System.exit( 1 );
    }
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();
    VALUE_TYPE
U = genValue();
    if (!valEquals(m.put(KEY2OBJ(T), VALUE2OBJ(U)), t.put(KEY2OBJ(T), VALUE2OBJ(U)))) {
        System.out.println("Error (" + seed + "): divergence in put() between t and m");
        System.exit( 1 );
    }
    T = genKey();
    if (!valEquals(m.remove(KEY2OBJ(T)), t.remove(KEY2OBJ(T)))) {
        System.out.println("Error (" + seed + "): divergence in remove() between t and m");
        System.exit( 1 );
    }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after removal");

/* Now we check that m actually holds the same data. */

```

```

for(java.util.Iterator i=t.entrySet().iterator(); i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    if (!valEquals(e.getValue(), m.get(e.getKey()))) {
        System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after removal (iterating on t)");
        System.exit( 1 );
    }
}

```

/*

Now we check that m actually holds that data, but iterating on m. */

```

for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    if (!valEquals(e.getValue(), t.get(e.getKey()))) {
        System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after removal (iterating on m)");
        System.exit( 1 );
    }
}

```

/* Now we check that m actually holds the same keys. */

```

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!m.containsKey(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ") after removal (iterating on t)");
        System.exit( 1 );
    }
    if (!m.keySet().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ", in keySet()) after removal (iterating on t)");
        System.exit( 1 );
    }
}

```

/* Now we check that m actually holds the same keys, but iterating on m. */

```

for(java.util.Iterator i=m.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!t.containsKey(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key after removal (iterating on m)");
        System.exit( 1 );
    }
    if (!t.keySet().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (in keySet()) after removal (iterating on m)");
        System.exit( 1 );
    }
}

```

```

/* Now we check that m actually hold the same values. */

for(java.util.Iterator i=t.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!m.containsValue(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value after removal (iterating on t)");
        System.exit( 1 );
    }
    if (!m.values().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after removal (iterating on t)");
        System.exit( 1 );
    }
}

/* Now we check that m actually hold the same values,
but iterating on m. */

for(java.util.Iterator i=m.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!t.containsValue(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value after removal (iterating on m)");
        System.exit( 1 );
    }
    if (!t.values().contains(o)) {
        System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after removal (iterating on m)");
        System.exit( 1 );
    }
}

int h = m.hashCode();

/* Now we save and read m. */

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();

    java.io.InputStream is = new java.io.FileInputStream(ff);
    java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m = (OPEN_HASH_MAP)ois.readObject();
}

```

```

    ois.close();
    ff.delete();
}
catch(Exception
e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if !#keyclass(Reference) && !#valueclass(Reference)
if (m.hashCode() != h) System.out.println("Error (" + seed + "): hashCode() changed after save/read");

/* Now we check that m actually holds that data. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    if (!valEquals(m.get(o),t.get(o))) {
        System.out.println("Error (" + seed + "): m and t differ on an entry after save/read");
        System.exit( 1 );
    }
}
#else
m.clear();
m.putAll( t );
#endif

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++ ) {
    KEY_TYPE T = genKey();
    VALUE_TYPE U = genValue();
    if (!valEquals(m.put(KEY2OBJ(T), VALUE2OBJ(U)), t.put(KEY2OBJ(T), VALUE2OBJ(U)))) {
        System.out.println("Error (" + seed + "): divergence in put() between t and m after save/read");
        System.exit( 1 );
    }
    T = genKey();
    if
(!valEquals(m.remove(KEY2OBJ(T)), t.remove(KEY2OBJ(T)))) {
        System.out.println("Error (" + seed + "): divergence in remove() between t and m after save/read");
        System.exit( 1 );
    }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after post-save/read removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after post-save/read removal");

```

```

#ifdef Linked

/* Now we play with iterators. */

{
java.util.ListIterator i, j;
Object J;
Map.Entry E, F;
i = (java.util.ListIterator)m.entrySet().iterator();
j = new java.util.LinkedList( t.entrySet() ).listIterator();

for( int k = 0; k < 2*n; k++ ) {
ensure( i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext()" );
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious()" );

if ( r.nextFloat() < .8 && i.hasNext() ) {
#ifdef Custom
ensure( m.strategy().equals( (E=(java.util.Map.Entry)i.next()).getKey(),
J = (F=(Map.Entry)j.next()).getKey() ), "Error (" + seed + "): divergence in next()" );
#else
ensure( (E=(java.util.Map.Entry)i.next()).getKey().equals( J = (F=(Map.Entry)j.next()).getKey() ), "Error (" + seed +
"): divergence in next()" );
#endif
}

if ( r.nextFloat() < 0.3 ) {
i.remove();
j.remove();
t.remove( J );
}
else if ( r.nextFloat() < 0.3 ) {
Object U = VALUE2OBJ(genValue());
E.setValue( U );
t.put( F.getKey(), U );
}
}

else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
#ifdef Custom
ensure( m.strategy().equals( (E=(java.util.Map.Entry)i.previous()).getKey(), J =
(F=(Map.Entry)j.previous()).getKey() ), "Error (" + seed + "): divergence in previous()" );
#else
ensure( (E=(java.util.Map.Entry)i.previous()).getKey().equals( J = (F=(Map.Entry)j.previous()).getKey() ), "Error ("
+ seed + "): divergence in previous()" );
#endif
}

if ( r.nextFloat() < 0.3 ) {
i.remove();
}
}

```

```

        j.remove();
        t.remove(
J);
    }
    else if ( r.nextFloat() < 0.3 ) {
        Object U = VALUE2OBJ(genValue());
        E.setValue( U );
        t.put( F.getKey(), U );
    }
}

ensure( i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex()" );

}

}

if ( t.size() > 0 ) {
    java.util.ListIterator i, j;
    Object J;
    j = new java.util.LinkedList( t.keySet() ).listIterator();
    int e = r.nextInt( t.size() );
    Object from;
    do from = j.next(); while( e-- != 0 );

    i = (java.util.ListIterator)((SORTED_SET)m.keySet()).iterator( KEY_OBJ2TYPE( from ) );

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext() (iterator with starting point " +
from + ")" );
        ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in
hasPrevious() (iterator with starting point " + from + ")" );

        if ( r.nextFloat() < .8 && i.hasNext() ) {
#ifdef Custom
            ensure( m.strategy().equals( i.next(), J = j.next() ), "Error (" + seed + "): divergence in next() (iterator with starting
point " + from + ")" );
#else
            ensure( i.next().equals( J = j.next() ), "Error (" + seed + "): divergence in next() (iterator with starting point " + from
+ ")" );
#endif
        }

        if ( r.nextFloat() < 0.5 ) {
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
}

```

```

    }
    else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
#ifdef Custom
        ensure( m.strategy().equals( i.previous(), J = j.previous() ), "Error (" + seed + "): divergence in previous() (iterator
with starting point " + from + ")" );
#else
        ensure( i.previous().equals( J = j.previous() ), "Error (" + seed + "): divergence in previous() (iterator with starting
point " + from + ")" );
#endif

        if ( r.nextFloat() < 0.5 ) {
            i.remove();
            j.remove();
            t.remove(
J);
        }
    }

    ensure( i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex() (iterator with starting point "
+ from + ")" );
    ensure( i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex() (iterator with
starting point " + from + ")" );

}

}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + seed + "): ! t.equals( m ) after iteration" );

#endif

/* Now we take out of m everything, and check that it is empty. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext(); ) m.remove(i.next());

if (!m.isEmpty()) {
    System.out.println("Error (" + seed + "): m is not empty (as it should be)");
    System.exit( 1 );
}

#ifdef NumericEnhancements
#if #valueclass(Byte) || #valueclass(Character) || #valueclass(Short) || #valueclass(Integer) || #valueclass(Long)

```

```

/*
Now we check that increment works properly, using random data */

{
t.clear();
m.clear();

for( int k = 0; k < 2*n; k++ ) {
KEY_TYPE T = genKey();
VALUE_TYPE U = genValue();

VALUE_TYPE rU = m.increment(T, U);
VALUE_GENERIC_CLASS tU = (VALUE_GENERIC_CLASS) t.get(KEY2OBJ(T));
if (null == tU) {
ensure(m.defaultReturnValue() == rU, "Error (" + seed + "): map increment does not return proper starting value." );
t.put( KEY2OBJ(T), VALUE2OBJ((VALUE_TYPE) (m.defaultReturnValue() + U)) );
}
else {
t.put( KEY2OBJ(T), VALUE2OBJ((VALUE_TYPE) (((VALUE_TYPE) tU) + U)) );
}
}

// Maps should contain identical values
ensure( new java.util.HashMap(m).equals(new java.util.HashMap(t)),
"Error(" + seed + "): incremented maps are not equal." );
}
#endif
#endif

#if (#keyclass(Integer) || #keyclass(Long)) && (#valueclass(Integer) || #valueclass(Long))
m = new OPEN_HASH_MAP(n, f);
t.clear();
int x;

/*
Now we torture-test the hash table. This part is implemented only for integers and longs. */

int p = m.key.length;

for(int i=0; i<p; i++) {
for (int j=0; j<20; j++) {
m.put(i+(r.nextInt() % 10)*p, 1);
m.remove(i+(r.nextInt() % 10)*p);
}

for (int j=-10; j<10; j++) m.remove(i+j*p);
}
}

```

```

t.putAll(m);

/* Now all table entries are REMOVED. */

for(int i=0; i<(p*f)/10; i++) {
  for (int j=0; j<10; j++) {
    if (!valEquals(m.put(KEY2OBJ(x = i+(r.nextInt() % 10)*p), VALUE2OBJ(1)), t.put(KEY2OBJ(x),
VALUE2OBJ(1))))
      System.out.println("Error (" + seed + "): m and t differ on an entry during torture-test insertion.");
  }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test insertion");

for(int i=0; i<p/10; i++) {
  for (int j=0; j<10; j++) {
    if (!valEquals(m.remove(KEY2OBJ(x = i+(r.nextInt()
% 10)*p)), t.remove(KEY2OBJ(x))))
      System.out.println("Error (" + seed + "): m and t differ on an entry during torture-test removal.");
  }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test removal");

if (!m.equals(m.clone())) System.out.println("Error (" + seed + "): !m.equals(m.clone()) after torture-test removal");
if (!((OPEN_HASH_MAP)m.clone()).equals(m)) System.out.println("Error (" + seed + "): !m.clone().equals(m)
after torture-test removal");

m.rehash();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after rehash()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after rehash()");

m.trim();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after trim()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m)
after trim()");
#endif

System.out.println("Test OK");
return;

#endif
}

```

```

public static void main( String args[] ) {
    float f = Hash.DEFAULT_LOAD_FACTOR;
    int n = Integer.parseInt(args[1]);
    if (args.length>2) f = Float.parseFloat(args[2]);
    if ( args.length > 3 ) r = new java.util.Random( seed = Long.parseLong( args[ 3 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, f, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n, f);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }

}

#endif

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/LinkedOpenCustomHashMap.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenHashMap.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/LinkedOpenHashMap.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/OpenCustomHashMap.drv

```

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* limitations under the License.
*/

```

```

package PACKAGE;

import it.unimi.dsi.fastutil.AbstractStack;

/** An abstract class providing basic methods for implementing a type-specific stack interface.
 *
 * <P>To create a type-specific stack, you need both object methods and
 * primitive-type methods. However, if you inherit from this class you need
 * just
 * one (anyone).
 */

public abstract class ABSTRACT_STACK KEY_GENERIC extends AbstractStack<KEY_GENERIC_CLASS>
implements STACK KEY_GENERIC {

    protected ABSTRACT_STACK() {}

    /** Delegates to the corresponding type-specific method. */
    public void push( KEY_GENERIC_CLASS o ) {
        push( o.KEY_VALUE() );
    }

    /** Delegates to the corresponding type-specific method. */
    public KEY_GENERIC_CLASS pop() {
        return KEY_CLASS.valueOf( POP() );
    }

    /** Delegates to the corresponding type-specific method. */
    public KEY_GENERIC_CLASS top() {
        return KEY_CLASS.valueOf( TOP() );
    }

    /** Delegates to the corresponding type-specific method. */
    public KEY_GENERIC_CLASS peek( int i ) {
        return KEY_CLASS.valueOf( PEEK( i ) );
    }

    /** Delegates to the corresponding generic method. */
    public void push( KEY_TYPE k ) {
        push( KEY_CLASS.valueOf( k ) );
    }

    /** Delegates to the corresponding generic method. */
    public KEY_TYPE POP() {
        return pop().KEY_VALUE();
    }
}

```

```
/** Delegates to the corresponding
generic method. */
public KEY_TYPE TOP() {
    return top().KEY_VALUE();
}
```

```
/** Delegates to the corresponding generic method. */
public KEY_TYPE PEEK( int i ) {
    return peek( i ).KEY_VALUE();
}
}
```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractStack.drv

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 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
import java.util.Comparator;
```

```
/** A type-specific {@link Comparator}; provides methods to compare two primitive types both as objects
 * and as primitive types.
 *
 * <P>Note that fastutil provides a corresponding abstract class that
 * can be used to implement this interface just by
 * specifying the type-specific
 * comparator.
 *
 * @see Comparator
 */
```

```

public interface KEY_COMPARATOR KEY_GENERIC extends Comparator<KEY_GENERIC_CLASS> {

    /** Compares the given primitive types.
     *
     * @see java.util.Comparator
     * @return A positive integer, zero, or a negative integer if the first
     * argument is greater than, equal to, or smaller than, respectively, the
     * second one.
     */

    public int compare( KEY_TYPE k1, KEY_TYPE k2 );
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Comparator.drv

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package PACKAGE;

```

```

/** An abstract class providing basic methods for sorted sets implementing a type-specific interface. */

```

```

public abstract class ABSTRACT_SORTED_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC
implements SORTED_SET KEY_GENERIC {

```

```

    protected ABSTRACT_SORTED_SET() {}

```

```

    #if #keys(primitive)

```

```

        /** Delegates

```

```

            to the corresponding type-specific method.

```

```

            * @deprecated Please use the corresponding type-specific method instead. */

```

```

            @Deprecated

```

```

public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_CLASS to ) {
    return headSet( to.KEY_VALUE() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_CLASS from ) {
    return tailSet( from.KEY_VALUE() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to ) {
    return subSet( from.KEY_VALUE(), to.KEY_VALUE() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS first()
{
    return KEY2OBJ( FIRST() );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS last() {
    return KEY2OBJ( LAST() );
}
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() {
    return iterator();
}

public abstract KEY_BIDI_ITERATOR KEY_GENERIC iterator();
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractSortedSet.drv

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 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Arrays;
import java.util.Comparator;
```

```
import it.unimi.dsi.fastutil.AbstractPriorityQueue;
#else
import java.util.Iterator;
#endif
```

```
import java.util.Collection;
import java.util.NoSuchElementException;
```

```
/** A type-specific heap-based priority
 * queue.
 *
 * <P>Instances of this class represent a priority queue using a heap. The heap is enlarged as needed, but
 * it is never shrunk. Use the {@link #trim()} method to reduce its size, if necessary.
 */
```

```
public class HEAP_PRIORITY_QUEUE KEY_GENERIC extends ABSTRACT_PRIORITY_QUEUE
KEY_GENERIC implements java.io.Serializable {
    private static final long serialVersionUID = 1L;
```

```
/** The heap array. */
SUPPRESS_WARNINGS_KEY_UNCHECKED
protected transient KEY_GENERIC_TYPE[] heap = KEY_GENERIC_ARRAY_CAST
```

```
ARRAYS.EMPTY_ARRAY;
```

```
/** The number of elements in this queue. */  
protected int size;
```

```
/** The type-specific comparator used in this queue. */  
protected KEY_COMPARATOR KEY_SUPER_GENERIC c;
```

```
/** Creates a new empty queue with a given capacity and comparator.  
 *  
 * @param capacity the initial capacity of this queue.  
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.  
 */
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED  
public HEAP_PRIORITY_QUEUE( int capacity,  
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {  
    if ( capacity > 0 ) this.heap = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ capacity ];  
    this.c = c;  
}
```

```
/** Creates a new empty queue with a given capacity and using the natural order.  
 *  
 * @param capacity the initial capacity of this queue.  
 */
```

```
public HEAP_PRIORITY_QUEUE( int capacity ) {  
    this( capacity, null );  
}
```

```
/** Creates a new empty queue with a given comparator.  
 *  
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.  
 */
```

```
public HEAP_PRIORITY_QUEUE( KEY_COMPARATOR KEY_SUPER_GENERIC c ) {  
    this( 0, c );  
}
```

```
/** Creates a new empty queue using the natural order.  
 */
```

```
public HEAP_PRIORITY_QUEUE() {  
    this( 0, null );  
}
```

```
/** Wraps a given array in a queue using a given comparator.  
 *
```

```
 * <P>The queue returned by this method will be backed by the given array.  
 * The first <code>size</code> element of the array will be rearranged so to form a heap (this is  
 * more efficient than enqueueing
```

the elements of `a` one by one).

*

* @param a an array.

* @param size the number of elements to be included in the queue.

* @param c the comparator used in this queue, or `null` for the natural order.

*/

```
public HEAP_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a, int size, final KEY_COMPARATOR
KEY_SUPER_GENERIC c ) {
    this( c );
    this.heap = a;
    this.size = size;
    HEAPS.makeHeap( a, size, c );
}
```

/** Wraps a given array in a queue using a given comparator.

*

* <P>The queue returned by this method will be backed by the given array.

* The elements of the array will be rearranged so to form a heap (this is

* more efficient than enqueueing the elements of `a` one by one).

*

* @param a an array.

* @param c the comparator used in this queue, or `null` for the natural order.

*/

```
public HEAP_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a, final KEY_COMPARATOR
KEY_SUPER_GENERIC c ) {
    this( a, a.length, c );
}
```

/** Wraps

a given array in a queue using the natural order.

*

* <P>The queue returned by this method will be backed by the given array.

* The first `size` element of the array will be rearranged so to form a heap (this is

* more efficient than enqueueing the elements of `a` one by one).

*

* @param a an array.

* @param size the number of elements to be included in the queue.

*/

```
public HEAP_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a, int size ) {
    this( a, size, null );
}
```

/** Wraps a given array in a queue using the natural order.

*

* <P>The queue returned by this method will be backed by the given array.

* The elements of the array will be rearranged so to form a heap (this is

```

* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param a an array.
*/
public HEAP_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] a ) {
    this( a, a.length );
}

#if #keys(primitive)

/** Creates a queue using the elements in a type-specific
collection using a given comparator.
*
* <P>This constructor is more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_PRIORITY_QUEUE( final COLLECTION KEY_EXTENDS_GENERIC collection, final
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( collection.TO_KEY_ARRAY(), c );
}

/** Creates a queue using the elements in a type-specific collection using the natural order.
*
* <P>This constructor is
* more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
*/
public HEAP_PRIORITY_QUEUE( final COLLECTION KEY_EXTENDS_GENERIC collection ) {
    this( collection, null );
}

/** Creates a queue using the elements in a collection using a given
comparator.
*
* <P>This constructor is more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_PRIORITY_QUEUE( final Collection<? extends KEY_GENERIC_CLASS> collection, final
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( collection.size(), c );
    final Iterator<? extends KEY_GENERIC_CLASS> iterator = collection.iterator();
    final int size = collection.size();
    for( int i = 0 ; i < size; i++ ) heap[ i ] = KEY_OBJ2TYPE( iterator.next() );
}

```

```

}

/** Creates a queue using the elements in a collection using the natural order.
 *
 * <P>This constructor is
 * more efficient than enqueueing the elements of <code>collection</code> one by one.
 *
 * @param collection a collection; its elements will be used to initialize the queue.
 */
public HEAP_PRIORITY_QUEUE(
final Collection<? extends KEY_GENERIC_CLASS> collection ) {
    this( collection, null );
}
#else
/** Creates a queue using the elements in a collection using a given comparator.
 *
 * <P>This constructor is more efficient than enqueueing the elements of <code>collection</code> one by one.
 *
 * @param collection a collection; its elements will be used to initialize the queue.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public HEAP_PRIORITY_QUEUE( final Collection<? extends KEY_GENERIC_CLASS> collection, final
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( KEY_GENERIC_ARRAY_CAST collection.toArray(), c );
}

/** Creates a queue using the elements in a collection using the natural order.
 *
 * <P>This constructor is
 * more efficient than enqueueing the elements of <code>collection</code> one by one.
 *
 * @param collection a collection; its elements will be used to initialize the queue.
 */
public
HEAP_PRIORITY_QUEUE( final Collection<? extends KEY_GENERIC_CLASS> collection ) {
    this( collection, null );
}
#endif

public void enqueue( KEY_GENERIC_TYPE x ) {
    if ( size == heap.length ) heap = ARRAYS.grow( heap, size + 1 );

    heap[ size++ ] = x;
    HEAPS.upHeap( heap, size, size - 1, c );
}

public KEY_GENERIC_TYPE DEQUEUE() {

```

```

if ( size == 0 ) throw new NoSuchElementException();

final KEY_GENERIC_TYPE result = heap[ 0 ];
heap[ 0 ] = heap[ --size ];
#if #keyclass(Object)
heap[ size ] = null;
#endif
if ( size != 0 ) HEAPS.downHeap( heap, size, 0, c );
return result;
}

public KEY_GENERIC_TYPE FIRST() {
if ( size == 0 ) throw new NoSuchElementException();
return heap[ 0 ];
}

public void changed() {
HEAPS.downHeap( heap, size, 0, c );
}

public int size() { return size; }

public void clear() {
#if #keyclass(Object)
Arrays.fill( heap, 0, size, null );
#endif
size = 0;
}

/** Trims the underlying heap array so that it has exactly { @link
#size()} elements.
*/

public void trim() {
heap = ARRAYS.trim( heap, size );
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return c; }

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
s.defaultWriteObject();
s.writeInt( heap.length );
for( int i = 0; i < size; i++ ) s.WRITE_KEY( heap[ i ] );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
}

```

```

heap = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ s.readInt() ];
for( int i = 0; i < size; i++ ) heap[ i ] = KEY_GENERIC_CAST s.READ_KEY();
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
    return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
    return r.NEXT_KEY();
#elif #keyclass(Object)
    return
        Integer.toBinaryString( r.nextInt() );
#else
    return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    System.out.println( "There are presently no speed tests for this class." );
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static boolean heapEqual( KEY_TYPE[] a, KEY_TYPE[] b, int sizea, int sizeb ) {
    if ( sizea != sizeb ) return false;

```

```

KEY_TYPE[] aa = (KEY_TYPE[])a.clone();
KEY_TYPE[] bb = (KEY_TYPE[])b.clone();
java.util.Arrays.sort( aa, 0, sizea
);
java.util.Arrays.sort( bb, 0, sizeb );
while( sizea-- != 0 ) if ( ! KEY_EQUALS( aa[sizea], bb[sizea] ) ) return false;
return true;
}

private static KEY_TYPE k[];

protected static void test( int n ) {
    long ms;
    Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds, mThrowsNoElement,
tThrowsNoElement;
    KEY_TYPE rm = KEY_NULL, rt = KEY_NULL;
    k = new KEY_TYPE[ n ];

    for( int i = 0; i < n; i++ ) k[i] = genKey();

    HEAP_PRIORITY_QUEUE m = new HEAP_PRIORITY_QUEUE(
COMPARATORS.NATURAL_COMPARATOR );
    ARRAY_PRIORITY_QUEUE t = new ARRAY_PRIORITY_QUEUE(
COMPARATORS.NATURAL_COMPARATOR );

    /* We add pairs to t. */
    for( int i = 0; i < n / 2; i++ ) {
        t.enqueue( k[ i ] );
        m.enqueue( k[ i ] );
    }

    ensure( heapEqual( m.heap, t.array, m.size(), t.size() ), "Error (" + seed + "): m and t differ after creation (" + m + ",
" + t + ")" );

    if ( m.size() != 0 ) {
        ensure( KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ
in first element after creation (" + m.FIRST() + ", " + t.FIRST() + ")" );
    }

    /* Now we add and remove random data in m and t, checking that the result is the same. */

    for(int i=0; i<2*n; i++) {

        if ( r.nextDouble() < 0.01 ) {
            t.clear();
            m.clear();
            for( int j = 0; j < n / 2; j++ ) {
                t.enqueue( k[ j ] );

```

```

    m.enqueue( k[ j ] );
    }
}

KEY_TYPE T = genKey();

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
    m.enqueue( T );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }

try {
    t.enqueue( T );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): enqueue()
divergence in IndexOutOfBoundsException
for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );

ensure( heapEqual( m.heap, t.array, m.size(), t.size() ), "Error (" + seed + "): m and t differ after enqueue (" + m + ",
" + t + ")" );

if ( m.size() != 0 ) {
    ensure( KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after enqueue
(" + m.FIRST() + ", " + t.FIRST() + ")" );
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
    rm = m.DEQUEUE();
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
catch ( NoSuchElementException e ) { mThrowsNoElement = e; }

try {
    rt

```

```

= t.DEQUEUE();
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
catch ( NoSuchElementException e ) { tThrowsNoElement = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): dequeue()
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): dequeue() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): dequeue()
divergence in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if ( mThrowsOutOfBounds == null ) ensure( KEY_EQUALS(rt, rm) , "Error (" + seed + "): divergence in dequeue()
between t and m (" + rt + ", " + rm + ")");

ensure(
heapEqual( m.heap, t.array, m.size(), t.size() ), "Error (" + seed + "): m and t differ after dequeue (" + m + ", " + t +
)");

if ( m.size() != 0 ) {
ensure( KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after dequeue
(" + m.FIRST() + ", " + t.FIRST() + ")");
}

/* Now we save and read m. */

try {
java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m = (HEAP_PRIORITY_QUEUE)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit( 1 );
}

ensure( heapEqual( m.heap, t.array, m.size(), t.size() ), "Error (" + seed

```

```

+ "): m and t differ after save/read" );

HEAP_PRIORITY_QUEUE m2 = new HEAP_PRIORITY_QUEUE( t.array, t.size() );
ARRAY_PRIORITY_QUEUE t2 = new ARRAY_PRIORITY_QUEUE( m.heap, m.size() );
m = m2;
t = t2;

ensure( heapEqual( m.heap, t.array, m.size(), t.size() ), "Error (" + seed + "): m and t differ after wrap (" + m + ", " +
t + ")");

if ( m.size() != 0 ) {
    ensure( KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after wrap (" +
m.FIRST() + ", " + t.FIRST() + ")");
}

if ( m.size() != 0 && ( ( new OPEN_HASH_SET( m.heap, 0, m.size ) ).size() == m.size() ) ) {

    int j = t.size(), M = --j;
    #if #keys(primitive)
        while( j-- != 0 ) if ( KEY_LESS( t.array[ j ], t.array[ M ] ) ) M = j;
    #else
        while( j-- != 0 ) if ( ((Comparable)t.array[ j ]).compareTo( t.array[ M ] ) < 0 ) M = j;
    #endif

    m.heap[ 0 ] = t.array[ M ] = genKey();

    m.changed();
    t.changed();

    ensure( heapEqual( m.heap, t.array, m.size(),
t.size() ), "Error (" + seed + "): m and t differ after change (" + m + ", " + t + ")");

    if ( m.size() != 0 ) {
        ensure( KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after change ("
+ m.FIRST() + ", " + t.FIRST() + ")");
    }
}

/* Now we check that m actually holds the same data. */

m.clear();
ensure( m.isEmpty(), "Error (" + seed + "): m is not empty after clear()" );

System.out.println("Test OK");
}

```

```

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/HeapPriorityQueue.drv

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/*

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*/

```

package PACKAGE;

```

```

import it.unimi.dsi.fastutil.Hash;

```

```

/** A type-specific {@link Hash} interface.

```

```

*

```

```

* @see Hash

```

```

*/

public interface HASH {

    /** A type-specific hash strategy.
     *
     * @see it.unimi.dsi.fastutil.Hash.Strategy
     */

    public interface Strategy {

        /** Returns the hash code of the specified element
        with respect to this hash strategy.
         *
         * @param e an element.
         * @return the hash code of the given element with respect to this hash strategy.
         */

        public int hashCode( KEY_TYPE e);

        /** Returns true if the given elements are equal with respect to this hash strategy.
         *
         * @param a an element.
         * @param b another element.
         * @return true if the two specified elements are equal with respect to this hash strategy.
         */

        public boolean equals( KEY_TYPE a, KEY_TYPE b );
    }
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Hash.drv

No license file was found, but licenses were detected in source scan.

```

/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.

```

```

*/

package PACKAGE;

#if #keyclass(Object)
import java.util.Comparator;
import it.unimi.dsi.fastutil.IndirectPriorityQueue;
#endif

import java.util.NoSuchElementException;

import it.unimi.dsi.fastutil.ints.IntArrays;
import it.unimi.dsi.fastutil.AbstractIndirectPriorityQueue;

/** A type-specific heap-based
semi-indirect priority queue.
*
* <P>Instances of this class use as reference list a <em>reference array</em>,
* which must be provided to each constructor. The priority queue is
* represented using a heap. The heap is enlarged as needed, but it is never
* shrunk. Use the { @link #trim()} method to reduce its size, if necessary.
*
* <P>This implementation allows one to enqueue several time the same index, but
* you must be careful when calling { @link #changed()}.
*/

public class HEAP_SEMI_INDIRECT_PRIORITY_QUEUE KEY_GENERIC extends
AbstractIndirectPriorityQueue<KEY_GENERIC_CLASS> implements INDIRECT_PRIORITY_QUEUE
KEY_GENERIC {

/** The reference array. */
protected final KEY_GENERIC_TYPE refArray[];

/** The semi-indirect heap. */
protected int heap[] = IntArrays.EMPTY_ARRAY;

/** The number of elements in this queue. */
protected int size;

/** The type-specific comparator used in this queue. */
protected KEY_COMPARATOR KEY_SUPER_GENERIC c;

/** Creates a
new empty queue without elements with a given capacity and comparator.
*
* @param refArray the reference array.
* @param capacity the initial capacity of this queue.

```

```

* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, int capacity,
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    if ( capacity > 0 ) this.heap = new int[ capacity ];
    this.refArray = refArray;
    this.c = c;
}

/** Creates a new empty queue with given capacity and using the natural order.
*
* @param refArray the reference array.
* @param capacity the initial capacity of this queue.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, int capacity ) {
    this( refArray, capacity, null );
}

/** Creates a new empty queue with capacity equal to the length of the reference array and a given comparator.
*
* @param refArray the reference array.
* @param c the comparator used
in this queue, or <code>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray,
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( refArray, refArray.length, c );
}

/** Creates a new empty queue with capacity equal to the length of the reference array and using the natural order.
* @param refArray the reference array.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray ) {
    this( refArray, refArray.length, null );
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.

```

```

* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, int
size, final KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( refArray, 0, c );
    this.heap = a;
    this.size = size;
    SEMI_INDIRECT_HEAPS.makeHeap( refArray, a, size, c );
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
* The elements of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, final
KEY_COMPARATOR KEY_SUPER_GENERIC
c ) {
    this( refArray, a, a.length, c );
}

/** Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, int
size ) {
    this( refArray, a, size, null );
}

/** Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
* The elements of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).

```

```

*
* @param
refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a ) {
    this( refArray, a, a.length );
}

/** Ensures that the given index is a valid reference.
*
* @param index an index in the reference array.
* @throws IndexOutOfBoundsException if the given index is negative or larger than the reference array length.
*/
protected void ensureElement( final int index ) {
    if ( index < 0 ) throw new IndexOutOfBoundsException( "Index (" + index + ") is negative" );
    if ( index >= refArray.length ) throw new IndexOutOfBoundsException( "Index (" + index + ") is larger than or
equal to reference array size (" + refArray.length + ")" );
}

public void enqueue( int x ) {
    ensureElement( x );

    if ( size == heap.length ) heap = IntArrays.grow( heap, size + 1 );

    heap[ size++ ] = x;
    SEMI_INDIRECT_HEAPS.upHeap( refArray, heap, size, size - 1, c );
}

public
int dequeue() {
    if ( size == 0 ) throw new NoSuchElementException();
    final int result = heap[ 0 ];
    heap[ 0 ] = heap[ --size ];
    if ( size != 0 ) SEMI_INDIRECT_HEAPS.downHeap( refArray, heap, size, 0, c );
    return result;
}

public int first() {
    if ( size == 0 ) throw new NoSuchElementException();
    return heap[ 0 ];
}

/** {@inheritDoc}
*
* <P>The caller <strong>must</strong> guarantee that when this method is called the
* index of the first element appears just once in the queue. Failure to do so
* will bring the queue in an inconsistent state, and will cause

```

```

* unpredictable behaviour.
*/

public void changed() {
    SEMI_INDIRECT_HEAPS.downHeap( refArray, heap, size, 0, c );
}

/** Rebuilds this heap in a bottom-up fashion.
*/

public void allChanged() {
    SEMI_INDIRECT_HEAPS.makeHeap( refArray, heap, size, c );
}

public int size() { return size; }

public void clear() { size = 0; }

/** Trims the backing array so that it has exactly {@link
#size()} elements.
*/

public void trim() {
    heap = IntArrays.trim( heap, size );
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return c; }

public int front( final int[] a ) {
    return c == null ? SEMI_INDIRECT_HEAPS.front( refArray, heap, size, a ) : SEMI_INDIRECT_HEAPS.front(
refArray, heap, size, a, c );
}

public String toString() {
    StringBuffer s = new StringBuffer();
    s.append( "[" );
    for ( int i = 0; i < size; i++ ) {
        if ( i != 0 ) s.append( ", " );
        s.append( refArray[ heap [ i ] ] );
    }
    s.append( "]" );
    return s.toString();
}

#ifdef TEST

/** The original class, now just used for testing. */

```

```

private static class TestQueue {

    /** The reference array */
    private KEY_TYPE refArray[];
    /** Its length */
    private int N;
    /** The number of elements in the heaps */
    private int n;
    /** The two comparators */
    private KEY_COMPARATOR primaryComp, secondaryComp;
    /** Two indirect heaps are used, called primary and secondary.
Each of them contains
    a permutation of n among the indices 0, 1, ..., N-1 in such a way that the
    corresponding
    objects be sorted with respect to the two comparators.
    We also need an array inSec[] so that inSec[k] is the index of
secondary
    containing k.
    */
    private int primary[], secondary[], inSec[];

    /** Builds a double indirect priority queue.
    * @param refArray The reference array.
    * @param primaryComp The primary comparator.
    * @param secondaryComp The secondary comparator.
    */
    public TestQueue( KEY_TYPE refArray[], KEY_COMPARATOR primaryComp, KEY_COMPARATOR
secondaryComp ) {
        this.refArray = refArray;
        this.N = refArray.length;
        assert this.N != 0;
        this.n = 0;
        this.primaryComp = primaryComp;
        this.secondaryComp = secondaryComp;
        this.primary = new int[N];
        this.secondary = new int[N];
        this.inSec = new int[N];
        java.util.Arrays.fill( inSec,
-1 );
    }

    /** Adds an index to the queue. Notice that the index should not be already present in the queue.
    * @param i The index to be added
    */
    public void add( int i ) {
        if ( i < 0 || i >= refArray.length ) throw new IndexOutOfBoundsException();
        //if ( inSec[ i ] >= 0 ) throw new IllegalArgumentException();
        primary[n] = i;
    }
}

```

```

n++;
swimPrimary( n-1 );
}

/** Heapify the primary heap.
 * @param i The index of the heap to be heapified.
 */
private void heapifyPrimary( int i ) {
    int dep = primary[i];
    int child;

    while ( ( child = 2*i+1 ) < n ) {
        if ( child+1 < n && primaryComp.compare( refArray[primary[child+1]], refArray[primary[child]] ) < 0 ) child++;
        if ( primaryComp.compare( refArray[dep], refArray[primary[child]] ) <= 0 ) break;
        primary[i] = primary[child];
        i = child;
    }
    primary[i] = dep;
}

/** Heapify the secondary heap.
 * @param i The index of the heap to be heapified.
 */
private void heapifySecondary(
int i ) {
    int dep = secondary[i];
    int child;

    while ( ( child = 2*i+1 ) < n ) {
        if ( child+1 < n && secondaryComp.compare( refArray[secondary[child+1]], refArray[secondary[child]] ) < 0 )
child++;
        if ( secondaryComp.compare( refArray[dep], refArray[secondary[child]] ) <= 0 ) break;
        secondary[i] = secondary[child]; inSec[secondary[i]] = i;
        i = child;
    }
    secondary[i] = dep; inSec[secondary[i]] = i;
}

/** Swim and heapify the primary heap.
 * @param i The index to be moved.
 */
private void swimPrimary( int i ) {
    int dep = primary[i];
    int parent;

    while ( i != 0 && ( parent = ( i - 1 ) / 2 ) >= 0 ) {
        if ( primaryComp.compare( refArray[primary[parent]], refArray[dep] ) <= 0 ) break;
        primary[i] = primary[parent];

```

```

    i = parent;
}
primary[i] = dep;
heapifyPrimary( i );
}

/** Swim and heapify the secondary heap.
 * @param i The index to be moved.
 */
private void swimSecondary( int i ) {
    int dep = secondary[i];
    int
parent;

    while ( i != 0 && ( parent = ( i - 1 ) / 2 ) >= 0 ) {
        if ( secondaryComp.compare( refArray[secondary[parent]], refArray[dep] ) <= 0 ) break;
        secondary[i] = secondary[parent]; inSec[secondary[i]] = i;
        i = parent;
    }
    secondary[i] = dep; inSec[secondary[i]] = i;
    heapifySecondary( i );
}

/** Returns the minimum element with respect to the primary comparator.
 * @return the minimum element.
 */
public int top() {
    if ( n == 0 ) throw new NoSuchElementException();
    return primary[0];
}

/** Returns the minimum element with respect to the secondary comparator.
 * @return the minimum element.
 */
public int secTop() {
    if ( n == 0 ) throw new NoSuchElementException();
    return secondary[0];
}

/** Removes the minimum element with respect to the primary comparator.
 * @return the removed element.
 */
public void remove() {
    if ( n == 0 ) throw new NoSuchElementException();
    int result = primary[0];
    // Copy a
leaf
    primary[0] = primary[n-1];
}

```

```

n--;
heapifyPrimary( 0 );
return;
}

public void clear() {
while( size() != 0 ) remove();
}

/** Signals that the minimum element with respect to the comparator has changed.
*/
public void change() {
heapifyPrimary( 0 );
}

/** Returns the number of elements in the queue.
* @return the size of the queue
*/
public int size() {
return n;
}

public String toString() {
String s = "[";
for ( int i = 0; i < n; i++ )
s += refArray[primary[i]]+", ";
return s+ "]";
}
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString( r.nextInt() );
#else
return new java.io.Serializable() {};
#endif
}

private
static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

```

```

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    System.out.println( "There are presently no speed tests for this class." );
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static boolean heapEqual( int[] a, int[] b, int sizea, int sizeb ) {
    if ( sizea != sizeb ) return false;
    while( sizea-- != 0 ) if ( a[sizea] != b[sizea] ) return false;
    return true;
}

protected static void test( int n ) {
    long ms;
    Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds, mThrowsNoElement,
    tThrowsNoElement;
    int
    rm = 0, rt = 0;
    KEY_TYPE[] refArray = new KEY_TYPE[ n ];

    for( int i = 0; i < n; i++ ) refArray[ i ] = genKey();

    HEAP_SEMI_INDIRECT_PRIORITY_QUEUE m = new HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(
    refArray, COMPARATORS.NATURAL_COMPARATOR );
    TestQueue t = new TestQueue( refArray, COMPARATORS.NATURAL_COMPARATOR,
    COMPARATORS.OPPOSITE_COMPARATOR );

    /* We add pairs to t. */
    for( int i = 0; i < n / 2; i++ ) {
        t.add( i );
        m.enqueue( i );
    }
}

```

```

ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after creation (" + m +
", " + t + ")" );

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++) {
if ( r.nextDouble() < 0.01 ) {
t.clear();
m.clear();
for( int j = 0; j < n / 2; j++ ) {
t.add( j );
m.enqueue( j );
}
}
}

int T = r.nextInt( 2 * n );

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds
= mThrowsIllegal = tThrowsIllegal = null;

try {
m.enqueue( T );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }

try {
t.add( T );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): enqueue()
divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds
+ ")" );
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );

ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after enqueue (" + m +
", " + t + ")" );

if ( m.size() != 0 ) {
ensure(
m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after enqueue (" + m.first() + ", " + t.top() +
")");
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =

```

```

tThrowsIllegal = null;

try {
    rm = m.dequeue();
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
catch ( NoSuchElementException e ) { mThrowsNoElement = e; }

try {
    rt = t.top();
    t.remove();
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
catch ( NoSuchElementException e ) { tThrowsNoElement = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): dequeue()
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal
== null ), "Error (" + seed + "): dequeue() divergence in IllegalArgumentException (" + mThrowsIllegal + ", " +
tThrowsIllegal + ")" );
ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): dequeue()
divergence in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
if ( mThrowsOutOfBounds == null ) ensure( rt == rm , "Error (" + seed + "): divergence in dequeue() between t and
m (" + rt + ", " + rm + ")" );

ensure( heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after dequeue (" + m +
", " + t + ")" );

if ( m.size() != 0 ) {
    ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after dequeue (" + m.first() + ", " +
t.top() + ")" );
}

if ( m.size() != 0 && ( ( new it.unimi.dsi.fastutil.ints.IntOpenHashSet( m.heap, 0, m.size ) ).size() == m.size() ) ) {

    refArray[ m.first() ] = genKey();

    m.changed();
    t.change();

    ensure(
heapEqual( m.heap, t.primary, m.size(), t.size() ), "Error (" + seed + "): m and t differ after change (" + m + ", " + t
+ ")" );

    if ( m.size() != 0 ) {

```

```

    ensure( m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after change (" + m.first() + ", " +
t.top() + ")");
    }
    }
}

```

```

/* Now we check that m actually holds the same data. */

```

```

m.clear();
ensure( m.isEmpty(), "Error (" + seed + "): m is not empty after clear()" );

```

```

System.out.println("Test OK");
}

```

```

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif
}

```

Found

in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/HeapSemiIndirectPriorityQueue.drv

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 */

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBigArrays.java
 *
 /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigArrays.java
 * /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongBigArrays.java

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```
<project>
<modelVersion>4.0.0</modelVersion>
<groupId>it.unimi.dsi</groupId>
<artifactId>fastutil</artifactId>
<packaging>jar</packaging>
```

```

<name>fastutil</name>
<version>7.0.10</version>
<description>fastutil extends the Java Collections Framework by providing type-specific maps, sets, lists and
priority queues with a small memory footprint and fast access and insertion; provides also big (64-bit) arrays, sets
and lists, and fast, practical I/O classes for binary and text files.</description>
<url>http://fasutil.di.unimi.it/</url>
<licenses>
  <license>
    <name>Apache License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
    <distribution>repo</distribution>
  </license>
</licenses>
<scm>
  <connection>scm:git://github.com/vigna/fastutil.git</connection>
  <url>https://github.com/vigna/fastutil</url>
</scm>
<developers>
  <developer>

  <id>vigna</id>
  <name>Sebastiano Vigna</name>
  <email>vigna@di.unimi.it</email>
</developer>
</developers>
<dependencies>
</dependencies>
</project>

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/pom.xml

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*/

```

package PACKAGE;

import java.util.Iterator;
import java.util.RandomAccess;
import java.util.NoSuchElementException;
import it.unimi.dsi.fastutil.BigArrays;

#if #keys(primitive)

/** A type-specific big list based on a big array; provides some additional methods that use polymorphism to avoid
(un)boxing.
*
* <P>This
class implements a lightweight, fast, open, optimized,
* reuse-oriented version of big-array-based big lists. Instances of this class
* represent a big list with a big array that is enlarged as needed when new entries
* are created (by doubling the current length), but is
* <em>never</em> made smaller (even on a { @link #clear()}). A family of
* { @linkplain #trim() trimming methods} lets you control the size of the
* backing big array; this is particularly useful if you reuse instances of this class.
* Range checks are equivalent to those of { @link java.util}'s classes, but
* they are delayed as much as possible. The backing big array is exposed by the
* { @link #elements()} method.
*
* <p>This class implements the bulk methods <code>removeElements()</code>,
* <code>addElements()</code> and <code>getElements()</code> using
* high-performance system calls (e.g., { @link
* System#arraycopy(Object,int,Object,int,int) System.arraycopy()} instead of
* expensive loops.
*
* @see java.util.ArrayList
*/

public class BIG_ARRAY_BIG_LIST KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC
implements RandomAccess, Cloneable, java.io.Serializable {
private static final long serialVersionUID = -7046029254386353130L;

#else

/** A type-specific big-array-based big list; provides some additional methods that use polymorphism to avoid
(un)boxing.
*
* <P>This class implements a lightweight, fast, open, optimized,
* reuse-oriented version of big-array-based big lists. Instances of this class
* represent a big list with a big array that is enlarged as needed when new entries

```

* are created (by doubling the current length), but is
 * *never* made smaller (even on a { @link #clear()}). A family of
 * { @linkplain #trim() trimming methods} lets you control the size of the
 * backing big array; this is particularly useful if you reuse instances of this class.
 * Range checks are equivalent to those of { @link java.util}'s classes, but
 * they are delayed as much
 as possible.
 *
 * <p>The backing big array is exposed by the { @link #elements()} method. If an instance
 * of this class was created { @linkplain #wrap(Object[][],long) by wrapping},
 * backing-array reallocations will be performed using reflection, so that
 * { @link #elements()} can return a big array of the same type of the original big array; the comments
 * about efficiency made in { @link it.unimi.dsi.fastutil.objects.ObjectArrays} apply here.
 *
 * <p>This class implements the bulk methods `removeElements()`,
 * `addElements()` and `getElements()` using
 * high-performance system calls (e.g., { @link
 * System#arraycopy(Object,int,Object,int,int) System.arraycopy()} instead of
 * expensive loops.
 *
 * @see java.util.ArrayList
 */

```
public class BIG_ARRAY_BIG_LIST KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC
implements RandomAccess, Cloneable, java.io.Serializable {
    private static final long serialVersionUID = -7046029254386353131L;
```

```
#endif
```

```
/**
```

```
The initial default capacity of a big-array big list. */
```

```
public final static int DEFAULT_INITIAL_CAPACITY = 16;
```

```
#if ! #keys(primitive)
```

```
/** Whether the backing big array was passed to wrap(). In
```

```
* this case, we must reallocate with the same type of big array. */
```

```
protected final boolean wrapped;
```

```
#endif
```

```
/** The backing big array. */
```

```
protected transient KEY_GENERIC_TYPE a[][];
```

```
/** The current actual size of the big list (never greater than the backing-array length). */
```

```
protected long size;
```

```
private static final boolean ASSERTS = ASSERTS_VALUE;
```

```

/** Creates a new big-array big list using a given array.
 *
 * <P>This constructor is only meant to be used by the wrapping methods.
 *
 * @param a the big array that will be used to back this big-array big list.
 */

@SuppressWarnings("unused")
protected BIG_ARRAY_BIG_LIST( final KEY_GENERIC_TYPE a[], boolean dummy ) {
    this.a = a;
    #if ! #keys(primitive)
        this.wrapped = true;
    #endif
}

/** Creates
a new big-array big list with given capacity.
 *
 * @param capacity the initial capacity of the array list (may be 0).
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public BIG_ARRAY_BIG_LIST( final long capacity ) {
    if ( capacity < 0 ) throw new IllegalArgumentException( "Initial capacity (" + capacity + ") is negative" );

    a = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray( capacity );
    #if ! #keys(primitive)
        wrapped = false;
    #endif
}

/** Creates a new big-array big list with { @link #DEFAULT_INITIAL_CAPACITY } capacity.
 */

public BIG_ARRAY_BIG_LIST() {
    this( DEFAULT_INITIAL_CAPACITY );
}

/** Creates a new big-array big list and fills it with a given type-specific collection.
 *
 * @param c a type-specific collection that will be used to fill the array list.
 */

public BIG_ARRAY_BIG_LIST( final COLLECTION KEY_EXTENDS_GENERIC c ) {
    this( c.size() );
    for( KEY_ITERATOR KEY_EXTENDS_GENERIC i = c.iterator(); i.hasNext(); ) add( i.NEXT_KEY() );
}

```

```

/** Creates a
new big-array big list and fills it with a given type-specific list.
*
* @param l a type-specific list that will be used to fill the array list.
*/

public BIG_ARRAY_BIG_LIST( final BIG_LIST KEY_EXTENDS_GENERIC l ) {
    this( l.size64() );
    l.getElements( 0, a, 0, size = l.size64() );
}

/** Creates a new big-array big list and fills it with the elements of a given big array.
*
* <p>Note that this constructor makes it easy to build big lists from literal arrays
* declared as <code><var>type</var>[][] {{ <var>init_values</var> }}</code>.
* The only constraint is that the number of initialisation values is
* below { @link it.unimi.dsi.fastutil.BigArrays#SEGMENT_SIZE}.
*
* @param a a big array whose elements will be used to fill the array list.
*/

public BIG_ARRAY_BIG_LIST( final KEY_GENERIC_TYPE a[][] ) {
    this( a, 0, BIG_ARRAYS.length( a ) );
}

/** Creates a new big-array big list and fills it with the elements of a given big array.
*
* <p>Note that
this constructor makes it easy to build big lists from literal arrays
* declared as <code><var>type</var>[][] {{ <var>init_values</var> }}</code>.
* The only constraint is that the number of initialisation values is
* below { @link it.unimi.dsi.fastutil.BigArrays#SEGMENT_SIZE}.
*
* @param a a big array whose elements will be used to fill the array list.
* @param offset the first element to use.
* @param length the number of elements to use.
*/

public BIG_ARRAY_BIG_LIST( final KEY_GENERIC_TYPE a[][], final long offset, final long length ) {
    this( length );
    BIG_ARRAYS.copy( a, offset, this.a, 0, length );
    size = length;
}

/** Creates a new big-array big list and fills it with the elements returned by an iterator..
*
* @param i an iterator whose returned elements will fill the array list.
*/

```

```

public BIG_ARRAY_BIG_LIST( final Iterator<? extends KEY_GENERIC_CLASS> i ) {
    this();
    while( i.hasNext() ) this.add( i.next() );
}

/** Creates a new big-array
big list and fills it with the elements returned by a type-specific iterator..
*
* @param i a type-specific iterator whose returned elements will fill the array list.
*/

public BIG_ARRAY_BIG_LIST( final KEY_ITERATOR KEY_EXTENDS_GENERIC i ) {
    this();
    while( i.hasNext() ) this.add( i.NEXT_KEY() );
}

#if #keys(primitive)
/** Returns the backing big array of this big list.
*
* @return the backing big array.
*/

public KEY_GENERIC_TYPE[][] elements() {
    return a;
}
#else
/** Returns the backing big array of this big list.
*
* <P>If this big-array big list was created by wrapping a given big array, it is guaranteed
* that the type of the returned big array will be the same. Otherwise, the returned
* big array will be an big array of objects.
*
* @return the backing big array.
*/

public KEY_GENERIC_TYPE[][] elements() {
    return a;
}
#endif

/** Wraps a given big array into a big-array list of given size.
*
* @param a a big array to wrap.

* @param length the length of the resulting big-array list.
* @return a new big-array list of the given size, wrapping the given big array.
*/

```

```

public static KEY_GENERIC BIG_ARRAY_BIG_LIST KEY_GENERIC wrap( final KEY_GENERIC_TYPE
a[], final long length ) {
    if ( length > BIG_ARRAYS.length( a ) ) throw new IllegalArgumentException( "The specified length (" + length +
") is greater than the array size (" + BIG_ARRAYS.length( a ) + ")" );
    final BIG_ARRAY_BIG_LIST KEY_GENERIC l = new BIG_ARRAY_BIG_LIST KEY_GENERIC( a, false );
    l.size = length;
    return l;
}

```

```

/** Wraps a given big array into a big-array big list.
 *
 * @param a a big array to wrap.
 * @return a new big-array big list wrapping the given array.
 */

```

```

public static KEY_GENERIC BIG_ARRAY_BIG_LIST KEY_GENERIC wrap( final KEY_GENERIC_TYPE a[]
) {
    return wrap( a, BIG_ARRAYS.length( a ) );
}

```

```

/** Ensures that this big-array big list can contain the given number of entries without resizing.
 *
 * @param capacity
the new minimum capacity for this big-array big list.
 */

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public void ensureCapacity( final long capacity ) {
    #if #keys(primitive)
        a = BIG_ARRAYS.ensureCapacity( a, capacity, size );
    #else
        if ( wrapped ) a = BIG_ARRAYS.ensureCapacity( a, capacity, size );
        else {
            if ( capacity > BIG_ARRAYS.length( a ) ) {
                final Object t[] = BIG_ARRAYS.newBigArray( capacity );
                BIG_ARRAYS.copy( a, 0, t, 0, size );
                a = (KEY_GENERIC_TYPE[][] )t;
            }
        }
    #endif
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
}

```

```

/** Grows this big-array big list, ensuring that it can contain the given number of entries without resizing,
 * and in case enlarging it at least by a factor of two.
 *
 * @param capacity the new minimum capacity for this big-array big list.
 */

```

```

*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
private void grow( final long capacity ) {
#if #keys(primitive)
    a = BIG_ARRAYS.grow( a, capacity, size );
#else
    if ( wrapped ) a = BIG_ARRAYS.grow(
a, capacity, size );
    else {
        if ( capacity > BIG_ARRAYS.length( a ) ) {
            final int newLength = (int)Math.max( Math.min( 2 * BIG_ARRAYS.length( a ),
it.unimi.dsi.fastutil.Arrays.MAX_ARRAY_SIZE ), capacity );
            final Object t[][] = BIG_ARRAYS.newBigArray( newLength );
            BIG_ARRAYS.copy( a, 0, t, 0, size );
            a = (KEY_GENERIC_TYPE[][])t;
        }
    }
#endif
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
}

public void add( final long index, final KEY_GENERIC_TYPE k ) {
    ensureIndex( index );
    grow( size + 1 );
    if ( index != size ) BIG_ARRAYS.copy( a, index, a, index + 1, size - index );
    BIG_ARRAYS.set( a, index, k );
    size++;
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    grow( size + 1 );
    BIG_ARRAYS.set( a, size++, k );
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
    return true;
}

public KEY_GENERIC_TYPE GET_KEY( final long index ) {
    if ( index >= size ) throw new IndexOutOfBoundsException(
"Index (" + index + ") is greater than or equal to list size (" + size + ")" );
    return BIG_ARRAYS.get( a, index );
}

public long indexOf( final KEY_TYPE k ) {
    for( long i = 0; i < size; i++ ) if ( KEY_EQUALS( k, BIG_ARRAYS.get( a, i ) ) ) return i;
    return -1;
}

```

```

public long lastIndexOf( final KEY_TYPE k ) {
    for ( long i = size; i-- != 0; ) if ( KEY_EQUALS( k, BIG_ARRAYS.get( a, i ) ) ) return i;
    return -1;
}

public KEY_GENERIC_TYPE REMOVE_KEY( final long index ) {
    if ( index >= size ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to list
size (" + size + ")" );
    final KEY_GENERIC_TYPE old = BIG_ARRAYS.get( a, index );
    size--;
    if ( index != size ) BIG_ARRAYS.copy( a, index + 1, a, index, size - index );
#ifdefkeys(reference)
    BIG_ARRAYS.set( a, size, null );
#endif
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
    return old;
}

public boolean rem( final KEY_TYPE k ) {
    final long index = indexOf(
k );
    if ( index == -1 ) return false;
    REMOVE_KEY( index );
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
    return true;
}

#ifdefkeys(reference)
public boolean remove( final Object o ) {
    return rem( o );
}
#endif

public KEY_GENERIC_TYPE set( final long index, final KEY_GENERIC_TYPE k ) {
    if ( index >= size ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to list
size (" + size + ")" );
    KEY_GENERIC_TYPE old = BIG_ARRAYS.get( a, index );
    BIG_ARRAYS.set( a, index, k );
    return old;
}

public void clear() {
#ifdefkeys(reference)
    BIG_ARRAYS.fill( a, 0, size, null );
#endif
    size = 0;
    if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
}

```

```

}

public long size64() {
    return size;
}

public void size( final long size ) {
    if ( size > BIG_ARRAYS.length( a ) ) ensureCapacity( size );
    if ( size > this.size ) BIG_ARRAYS.fill( a, this.size, size, KEY_NULL );
    #if #keys(reference)
        else BIG_ARRAYS.fill( a, size, this.size,
            KEY_NULL );
    #endif
    this.size = size;
}

public boolean isEmpty() {
    return size == 0;
}

/** Trims this big-array big list so that the capacity is equal to the size.
 *
 * @see java.util.ArrayList#trimToSize()
 */
public void trim() {
    trim( 0 );
}

/** Trims the backing big array if it is too large.
 *
 * If the current big array length is smaller than or equal to
 * <code>n</code>, this method does nothing. Otherwise, it trims the
 * big-array length to the maximum between <code>n</code> and { @link #size64() }.
 *
 * <P>This method is useful when reusing big lists. { @linkplain #clear() Clearing a
 * big list} leaves the big-array length untouched. If you are reusing a big list
 * many times, you can call this method with a typical
 * size to avoid keeping around a very large big array just
 * because of a few large transient big lists.
 *
 * @param n the threshold for the trimming.
 */
public void trim( final long n ) {
    final long arrayLength
    = BIG_ARRAYS.length( a );
    if ( n >= arrayLength || size == arrayLength ) return;
    a = BIG_ARRAYS.trim( a, Math.max( n, size ) );
}

```

```

if ( ASSERTS ) assert size <= BIG_ARRAYS.length( a );
}

/** Copies element of this type-specific list into the given big array using optimized system calls.
 *
 * @param from the start index (inclusive).
 * @param a the destination big array.
 * @param offset the offset into the destination array where to store the first element copied.
 * @param length the number of elements to be copied.
 */

public void getElements( final int from, final KEY_TYPE[][] a, final long offset, final long length ) {
    BIG_ARRAYS.copy( this.a, from, a, offset, length );
}

/** Removes elements of this type-specific list using optimized system calls.
 *
 * @param from the start index (inclusive).
 * @param to the end index (exclusive).
 */

public void removeElements( final int from, final int to ) {
    BigArrays.ensureFromTo( size, from, to );
    BIG_ARRAYS.copy(
a, to, a, from, size - to );
    size -= ( to - from );
#ifdef keys(reference)
    BIG_ARRAYS.fill( a, size, size + to - from, null );
#endif
}

/** Adds elements to this type-specific list using optimized system calls.
 *
 * @param index the index at which to add elements.
 * @param a the big array containing the elements.
 * @param offset the offset of the first element to add.
 * @param length the number of elements to add.
 */

public void addElements( final int index, final KEY_GENERIC_TYPE a[], final long offset, final long length ) {
    ensureIndex( index );
    BIG_ARRAYS.ensureOffsetLength( a, offset, length );
    grow( size + length );
    BIG_ARRAYS.copy( this.a, index, this.a, index + length, size - index );
    BIG_ARRAYS.copy( a, offset, this.a, index, length );
    size += length;
}

```

```

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final int index ) {
    ensureIndex( index );

    return new KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC() {
        int pos = index,
        last = -1;

        public boolean hasNext() { return pos < size; }
        public boolean hasPrevious() { return pos > 0; }
        public KEY_GENERIC_TYPE NEXT_KEY() { if ( ! hasNext() ) throw new NoSuchElementException(); return
BIG_ARRAYS.get( a, last = pos++ ); }
        public KEY_GENERIC_TYPE PREV_KEY() { if ( ! hasPrevious() ) throw new NoSuchElementException(); return
BIG_ARRAYS.get( a, last = --pos ); }
        public long nextIndex() { return pos; }
        public long previousIndex() { return pos - 1; }
        public void add( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            BIG_ARRAY_BIG_LIST.this.add( pos++, k );
            last = -1;
        }
        public void set( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            BIG_ARRAY_BIG_LIST.this.set( last, k );
        }
        public void remove() {
            if ( last == -1 ) throw new IllegalStateException();
            BIG_ARRAY_BIG_LIST.this.REMOVE_KEY( last );
            /* If the last operation was a next(),
we are removing an element *before* us, and we must decrease pos correspondingly. */
            if ( last < pos ) pos--;
            last = -1;
        }
    };
}

```

```

public BIG_ARRAY_BIG_LIST KEY_GENERIC clone() {
    BIG_ARRAY_BIG_LIST KEY_GENERIC c = new BIG_ARRAY_BIG_LIST KEY_GENERIC( size );
    BIG_ARRAYS.copy( a, 0, c.a, 0, size );
    c.size = size;
    return c;
}

```

```

#if #keyclass(Object)
private boolean valEquals( final K a, final K b ) {
    return a == null ? b == null : a.equals( b );
}
#endif

```

```

/** Compares this type-specific big-array list to another one.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited from the abstract implementation would already work.
 *
 * @param l a type-specific big-array list.
 * @return true if the argument contains the same elements of this type-specific big-array list.
 */
public boolean equals( final BIG_ARRAY_BIG_LIST KEY_GENERIC l ) {
    if ( l == this ) return true;
    long s = size64();
    if ( s != l.size64()
    ) return false;
    final KEY_GENERIC_TYPE[][] a1 = a;
    final KEY_GENERIC_TYPE[][] a2 = l.a;

    #if #keyclass(Object)
        while( s-- != 0 ) if ( ! valEquals( BIG_ARRAYS.get( a1, s ), BIG_ARRAYS.get( a2, s ) ) ) return false;
    #else
        while( s-- != 0 ) if ( BIG_ARRAYS.get( a1, s ) != BIG_ARRAYS.get( a2, s ) ) return false;
    #endif
    return true;
}

#if ! #keyclass(Reference)

/** Compares this big list to another big list.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited from the abstract implementation would already work.
 *
 * @param l a big list.
 * @return a negative integer,
 * zero, or a positive integer as this big list is lexicographically less than, equal
 * to, or greater than the argument.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public int compareTo( final BIG_ARRAY_BIG_LIST KEY_EXTENDS_GENERIC l ) {
    final long s1 = size64(), s2 = l.size64();
    final KEY_GENERIC_TYPE a1[][] = a, a2[][] = l.a;
    KEY_GENERIC_TYPE
    e1, e2;
    int r, i;

    for( i = 0; i < s1 && i < s2; i++ ) {
        e1 = BIG_ARRAYS.get( a1, i );

```

```

    e2 = BIG_ARRAYS.get( a2, i );
    if ( ( r = KEY_CMP( e1, e2 ) ) != 0 ) return r;
}

return i < s2 ? -1 : ( i < s1 ? 1 : 0 );
}
#endif

private void writeObject( java.io.ObjectOutputStream s ) throws java.io.IOException {
    s.defaultWriteObject();
    for( int i = 0; i < size; i++ ) s.WRITE_KEY( BIG_ARRAYS.get( a, i ) );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();
    a = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray( size );
    for( int i = 0; i < size; i++ ) BIG_ARRAYS.set( a, i, KEY_GENERIC_CAST s.READ_KEY() );
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return
            (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #elif #keyclass(Object)
        return Integer.toBinaryString( r.nextInt() );
    #else
        return new java.io.Serializable() {};
    #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

```

```

private static void speedTest( int n, boolean comp ) {
    System.out.println( "There are presently no speed tests for this class." );
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static BIG_ARRAY_BIG_LIST topList;

protected
static void testLists( BIG_LIST m, BIG_LIST t, int n, int level ) {
    long ms;
    Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds;
    Object rt = null;
    KEY_TYPE rm = KEY_NULL;

    if ( level > 4 ) return;

    /* Now we check that both sets agree on random keys. For m we use the polymorphic method. */

    for( int i = 0; i < n; i++ ) {
        int p = r.nextInt() % ( n * 2 );

        KEY_TYPE T = genKey();
        mThrowsOutOfBounds = tThrowsOutOfBounds = null;

        try {
            m.set( p, T );
        }
        catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
        try {
            t.set( p, KEY2OBJ( T ) );
        }
        catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

        ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):

```

```

set() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")";
    if ( mThrowsOutOfBounds == null )
ensure( t.get( p ).equals( KEY2OBJ( m.GET_KEY( p ) ) ), "Error (" + level + ", " + seed + "): m and t differ after
set() on position " + p + " (" + m.GET_KEY( p ) + ", " + t.get( p ) + ")");

    p = r.nextInt() % ( n * 2 );
    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.GET_KEY( p );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    try {
        t.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
get() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
    if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( KEY2OBJ( m.GET_KEY( p ) ) ), "Error (" + level +
", " + seed + "): m and t differ afre get() on position " + p + " (" + m.GET_KEY( p ) + ", " + t.get( p ) + ")");
}

/* Now we check that
both sets agree on random keys. For m we use the standard method. */

for( int i = 0; i < n; i++ ) {
    int p = r.nextInt() % ( n * 2 );

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    try {
        t.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
get() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
    if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( m.get( p ) ), "Error (" + level + ", " + seed + "): m and
t differ at start on position " + p + " (" + m.get( p ) + ", " + t.get( p ) + ")");
}

```

```

}

/* Now we check that m and t are equal. */
if ( !m.equals( t ) || ! t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

ensure(
m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.listIterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)" );
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    ensure( m.contains(T) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in content
between t and m (polymorphic method)" );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    ensure( m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in
content between t and m (polymorphic method)" );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++) {
    KEY_TYPE T = genKey();

    try {

```

```

    m.add( T );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

try {
    t.add( KEY2OBJ( T ) );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

T = genKey();
int p = r.nextInt() % ( 2 * n + 1 );

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
    m.add(p, T );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

try {
    t.add(p,
KEY2OBJ(T));
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
add() divergence in IndexOutOfBoundsException for index " + p + " for " + T + " (" + mThrowsOutOfBounds + ", "
+ tThrowsOutOfBounds + ")" );

p = r.nextInt() % ( 2 * n + 1 );

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
    rm = m.REMOVE_KEY(p);
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

try {
    rt = t.remove(p);
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
remove() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")" );

```

```

    if ( mThrowsOutOfBounds == null ) ensure( rt.equals( KEY2OBJ( rm ) ), "Error (" + level + ", "
+ seed + "): divergence in remove() between t and m (" + rt + ", " + rm + ")" );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after add/remove" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after add/remove" );

/* Now we add random data in m and t using addAll on a collection, checking that the result is the same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2 * n + 1 );
    java.util.Collection m1 = new java.util.ArrayList();
    int s = r.nextInt( n / 2 + 1 );
    for( int j = 0; j < s; j++ ) m1.add( KEY2OBJ( genKey() ) );

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.addAll(p, m1);
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        t.addAll(p, m1);
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
addAll()
divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")" );

    ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after addAll" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals( m ) after addAll" );
}

if ( m.size64() > n ) {
    m.size( n );
    while( t.size64() != n ) t.remove( t.size64() -1 );
}

/* Now we add random data in m and t using addAll on a type-specific collection, checking that the result is the
same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2 * n + 1 );
    COLLECTION m1 = new BIG_ARRAY_BIG_LIST();
    java.util.Collection t1 = new java.util.ArrayList();

```

```

int s = r.nextInt( n / 2 + 1 );
for( int j = 0; j < s; j++ ) {
    KEY_TYPE x = genKey();
    m1.add( x );
    t1.add( KEY2OBJ( x ) );
}

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
    m.addAll(p, m1);
}
catch ( IndexOutOfBoundsException
e ) { mThrowsOutOfBounds = e; }

try {
    t.addAll(p, t1);
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
polymorphic addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );

ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after polymorphic addAll" );
ensure( t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals( m ) after polymorphic addAll" );
}

if ( m.size64() > n ) {
    m.size( n );
    while( t.size64() != n ) t.remove( t.size64() - 1 );
}

/* Now we add random data in m and t using addAll on a list, checking that the result is the same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2 * n + 1 );
    BIG_LIST m1 = new BIG_ARRAY_BIG_LIST();
    java.util.Collection
t1 = new java.util.ArrayList();
    int s = r.nextInt( n / 2 + 1 );
    for( int j = 0; j < s; j++ ) {
        KEY_TYPE x = genKey();
        m1.add( x );
        t1.add( KEY2OBJ( x ) );
    }

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

```

```

try {
    m.addAll(p, m1);
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

try {
    t.addAll(p, t1);
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
list addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after list addAll" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after list addAll" );
}

/* Now we check that both sets agree on random keys. For m we use the standard
method. */

for( int i = 0; i < n; i++ ) {
    int p = r.nextInt() % ( n * 2 );

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        t.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
get() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")" );

    if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( m.get( p ) ), "Error (" + level + ", " + seed + "): m and
t differ on position " + p + " (" + m.get( p ) + ", " + t.get( p ) + ")" );

}

/* Now we inquiry about the content with indexOf()/lastIndexOf(). */

for(int i=0; i<10*n; i++ ) {
    KEY_TYPE T = genKey();

```

```

    ensure( m.indexOf( KEY2OBJ( T ) ) == t.indexOf( KEY2OBJ( T ) ),
        "Error
(" + level + ", " + seed + "): indexOf() divergence for " + T + " (" + m.indexOf( KEY2OBJ( T ) ) + ", " +
t.indexOf( KEY2OBJ( T ) ) + ")" );
    ensure( m.lastIndexOf( KEY2OBJ( T ) ) == t.lastIndexOf( KEY2OBJ( T ) ),
        "Error (" + level + ", " + seed + "): lastIndexOf() divergence for " + T + " (" + m.lastIndexOf( KEY2OBJ( T ) ) + ",
" + t.lastIndexOf( KEY2OBJ( T ) ) + ")" );
    ensure( m.indexOf( T ) == t.indexOf( KEY2OBJ( T ) ),
        "Error (" + level + ", " + seed + "): polymorphic indexOf() divergence for " + T + " (" + m.indexOf( T ) + ", " +
t.indexOf( KEY2OBJ( T ) ) + ")" );
    ensure( m.lastIndexOf( T ) == t.lastIndexOf( KEY2OBJ( T ) ),
        "Error (" + level + ", " + seed + "): polymorphic lastIndexOf() divergence for " + T + " (" + m.lastIndexOf( T ) + ",
" + t.lastIndexOf( KEY2OBJ( T ) ) + ")" );
    }

/* Now we check cloning. */

if ( level == 0 ) {
    ensure( m.equals( ((BIG_ARRAY_BIG_LIST)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal
m.clone()"
);
    ensure( ((BIG_ARRAY_BIG_LIST)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not
equal m" );
    }

/* Now we play with constructors. */
    ensure( m.equals( new BIG_ARRAY_BIG_LIST( (COLLECTION)m ) ), "Error (" + level + ", " + seed + "): m does
not equal new ( type-specific Collection m )" );
    ensure( ( new BIG_ARRAY_BIG_LIST( (COLLECTION)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new
( type-specific nCollection m ) does not equal m" );
    ensure( m.equals( new BIG_ARRAY_BIG_LIST( (BIG_LIST)m ) ), "Error (" + level + ", " + seed + "): m does not
equal new ( type-specific List m )" );
    ensure( ( new BIG_ARRAY_BIG_LIST( (BIG_LIST)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new (
type-specific List m ) does not equal m" );
    ensure( m.equals( new BIG_ARRAY_BIG_LIST( m.listIterator() ) ), "Error (" + level + ", " + seed + "): m does not
equal new ( m.listIterator() )" );
    ensure( ( new BIG_ARRAY_BIG_LIST( m.listIterator()
) ).equals( m ), "Error (" + level + ", " + seed + "): new ( m.listIterator() ) does not equal m" );
    ensure( m.equals( new BIG_ARRAY_BIG_LIST( m.iterator() ) ), "Error (" + level + ", " + seed + "): m does not
equal new ( m.type_specific_iterator() )" );
    ensure( ( new BIG_ARRAY_BIG_LIST( m.iterator() ) ).equals( m ), "Error (" + level + ", " + seed + "): new (
m.type_specific_iterator() ) does not equal m" );

    int h = m.hashCode();

/* Now we save and read m. */

```

```

BIG_LIST m2 = null;

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();

    java.io.InputStream is = new java.io.FileInputStream(ff);
    java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m2 = (BIG_LIST)ois.readObject();
    ois.close();
    ff.delete();
}
catch(Exception e) {
    e.printStackTrace();
    System.exit(
1 );
}

#if ! #keyclass(Reference)
ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext(); ) m2.remove(i.next());

ensure( m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)" );
#endif

/* Now we play with iterators. */

{
    KEY_BIG_LIST_ITERATOR i;
    KEY_BIG_LIST_ITERATOR j;
    Object J;
    i = m.listIterator();
    j = t.listIterator();

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()"

```

```

);
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

if ( r.nextFloat() < .8 && i.hasNext() ) {
    ensure( i.next().equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next()" );

    if ( r.nextFloat() < 0.2 ) {
        i.remove();
        j.remove();
    }
    else if ( r.nextFloat() < 0.2 ) {
        KEY_TYPE T = genKey();
        i.set( T );
        j.set( KEY2OBJ( T ) );
    }
    else if ( r.nextFloat() < 0.2 ) {
        KEY_TYPE T = genKey();
        i.add( T );
        j.add( KEY2OBJ( T ) );
    }
}
else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
    ensure( i.previous().equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous()" );

    if ( r.nextFloat() < 0.2 ) {
        i.remove();
        j.remove();
    }
    else if ( r.nextFloat() < 0.2 ) {
        KEY_TYPE T = genKey();
        i.set( T );
        j.set( KEY2OBJ( T ) );
    }
    else if (
r.nextFloat() < 0.2 ) {
        KEY_TYPE T = genKey();
        i.add( T );
        j.add( KEY2OBJ( T ) );
    }
}

ensure( i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()" );

}

}

```

```

{
Object previous = null;
Object I, J;
long from = m.isEmpty() ? 0 : ( r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % m.size64();
KEY_BIG_LIST_ITERATOR i;
KEY_BIG_LIST_ITERATOR j;
i = m.listIterator( from );
j = t.listIterator( from );

for( int k = 0; k < 2*n; k++ ) {
    ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")" );
    ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious() (iterator
with starting point " + from + ")" );

    if ( r.nextFloat() < .8 && i.hasNext()
) {
        ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")" );
        //System.err.println("Done next " + I + " " + J + " " + badPrevious);

        if ( r.nextFloat() < 0.2 ) {
            //System.err.println("Removing in next");
            i.remove();
            j.remove();
        }
        else if ( r.nextFloat() < 0.2 ) {
            KEY_TYPE T = genKey();
            i.set( T );
            j.set( KEY2OBJ( T ) );
        }
        else if ( r.nextFloat() < 0.2 ) {
            KEY_TYPE T = genKey();
            i.add( T );
            j.add( KEY2OBJ( T ) );
        }
    }
    else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure( ( I = i.previous() ).equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")" );

        if ( r.nextFloat() < 0.2 ) {
            //System.err.println("Removing in prev");
            i.remove();
            j.remove();
        }
    }
    else

```

```

if ( r.nextFloat() < 0.2 ) {
    KEY_TYPE T = genKey();
    i.set( T );
    j.set( KEY2OBJ( T ) );
}
else if ( r.nextFloat() < 0.2 ) {
    KEY_TYPE T = genKey();
    i.add( T );
    j.add( KEY2OBJ( T ) );
}
}

}

}

}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a subset. */

if ( ! m.isEmpty() ) {
    long start = (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % m.size64();
    long end = start + (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % ( m.size64() - start );
    //System.err.println("Checking subList from " + start + " to " + end + " (level=" + (level+1) + ")...");
    testLists( m.subList( start, end ), t.subList( start, end ), n, level + 1 );

    ensure( m.equals(t), "Error (" +
level + ", " + seed + m + t + "): ! m.equals( t ) after subList" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subList" );

}

m.clear();
t.clear();
ensure( m.isEmpty(), "Error (" + level + ", " + seed + "): m is not empty after clear()" );
}

protected static void test( int n ) {
    BIG_ARRAY_BIG_LIST m = new BIG_ARRAY_BIG_LIST();
    BIG_LIST t = BIG_LISTS.asBigList( new ARRAY_LIST() );
    topList = m;
    k = new Object[n];
    nk = new Object[n];
    kt = new KEY_TYPE[n];
    nkt = new KEY_TYPE[n];
}

```

```

    for( int i = 0; i < n; i++ ) {
#if #keys(reference)
    k[i] = kt[i] = genKey();
    nk[i] = nkt[i] = genKey();
#else
    k[i] = new KEY_CLASS( kt[i] = genKey() );
    nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
    }

    /* We add pairs to t. */
#if #keys(primitive)
    for( int i = 0; i < n; i++ ) t.add( (KEY_GENERIC_CLASS)k[i] );
#else
    for( int i = 0; i < n; i++ ) t.add( k[i] );
#endif

    /* We add to m the same data */
    m.addAll(t);

    testLists(
m, t, n, 0 );

    System.out.println("Test OK");
    return;
}

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigArrayBigList.drv
```

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No license file was found, but licenses were detected in source scan.
```

```
/*
```

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```

```
*/
```

```
package PACKAGE;
```

```
#if #keyclass(Object)
```

```
import java.util.Comparator;
```

```
import it.unimi.dsi.fastutil.IndirectPriorityQueue;
```

```
#endif
```

```
import it.unimi.dsi.fastutil.ints.IntArrays;
```

```
import it.unimi.dsi.fastutil.AbstractIndirectPriorityQueue;
```

```
import java.util.NoSuchElementException;
```

```
/** A type-specific array-based
```

```
semi-indirect priority queue.
```

```
*
```

```
* <P>Instances of this class use as reference list a <em>reference array</em>,
```

```
* which must be provided to each constructor, and represent a priority queue
```

```
* using a backing array of integer indices&mdash;all operations are performed
```

```
* directly on the array. The array is enlarged as needed, but it is never
```

```
* shrunk. Use the {@link #trim()} method to reduce its size, if necessary.
```

```
*
```

```
* <P>This implementation is extremely inefficient, but it is difficult to beat
```

```
* when the size of the queue is very small. Moreover, it allows to enqueue several
```

```
* time the same index, without limitations.
```

```
*/
```

```
public class ARRAY_INDIRECT_PRIORITY_QUEUE_KEY_GENERIC extends
```

```
AbstractIndirectPriorityQueue<KEY_GENERIC_CLASS> implements INDIRECT_PRIORITY_QUEUE
```

```

KEY_GENERIC {

/** The reference array. */
protected KEY_GENERIC_TYPE refArray[];

/** The backing array. */
protected int array[] = IntArrays.EMPTY_ARRAY;

/** The number of elements in this queue.
*/
protected int size;

/** The type-specific comparator used in this queue. */
protected KEY_COMPARATOR KEY_SUPER_GENERIC c;

/** The first index, cached, if { @link #firstIndexValid } is true. */
protected int firstIndex;

/** Whether { @link #firstIndex } contains a valid value. */
protected boolean firstIndexValid;

/** Creates a new empty queue without elements with a given capacity and comparator.
*
* @param refArray the reference array.
* @param capacity the initial capacity of this queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, int capacity,
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
if ( capacity > 0 ) this.array = new int[ capacity ];
this.refArray = refArray;
this.c = c;
}

/** Creates a new empty queue with given capacity and using the natural order.
*
* @param refArray the reference array.
* @param capacity the initial capacity
of this queue.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, int capacity ) {
this( refArray, capacity, null );
}

/** Creates a new empty queue with capacity equal to the length of the reference array and a given comparator.
*
* @param refArray the reference array.

```

```

* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray, KEY_COMPARATOR
KEY_SUPER_GENERIC c ) {
    this( refArray, refArray.length, c );
}

/** Creates a new empty queue with capacity equal to the length of the reference array and using the natural order.
* @param refArray the reference array.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( KEY_GENERIC_TYPE[] refArray ) {
    this( refArray, refArray.length, null );
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param refArray
the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, int size,
final KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( refArray, 0, c );
    this.array = a;
    this.size = size;
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, final
KEY_COMPARATOR KEY_SUPER_GENERIC c ) {
    this( refArray, a, a.length, c );
}

/** Wraps a given array

```

in a queue using the natural order.

```
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a, int size )
{
    this( refArray, a, size, null );
}
```

```
/** Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
*/
public ARRAY_INDIRECT_PRIORITY_QUEUE( final KEY_GENERIC_TYPE[] refArray, final int[] a ) {
    this( refArray, a, a.length );
}
```

```
/** Returns the index (in { @link #array }) of the smallest element. */
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
private int findFirst() {
    if ( firstIndexValid ) return this.firstIndex;
    firstIndexValid
    = true;
    int i = size;
    int firstIndex = --i;
    KEY_GENERIC_TYPE first = refArray[ array[ firstIndex ] ];

    if ( c == null ) while( i-- != 0 ) { if ( KEY_LESS( refArray[ array[ i ] ], first ) ) first = refArray[ array[ firstIndex = i ] ]; }
    else while( i-- != 0 ) { if ( c.compare( refArray[ array[ i ] ], first ) < 0 ) first = refArray[ array[ firstIndex = i ] ]; }

    return this.firstIndex = firstIndex;
}
```

```
/** Returns the index (in { @link #array }) of the largest element. */
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
private int findLast() {
```

```

int i = size;
int lastIndex = --i;
KEY_GENERIC_TYPE last = refArray[ array[ lastIndex ] ];

if ( c == null ) { while( i-- != 0 ) if ( KEY_LESS( last, refArray[ array[ i ] ] ) ) last = refArray[ array[ lastIndex = i ]
]; }
else { while( i-- != 0 ) if ( c.compare( last, refArray[ array[ i ] ] ) < 0 ) last = refArray[ array[ lastIndex = i ] ]; }

return lastIndex;
}

protected final void ensureNonEmpty() {
    if ( size
    == 0 ) throw new NoSuchElementException();
}

/** Ensures that the given index is a firstIndexValid reference.
 *
 * @param index an index in the reference array.
 * @throws IndexOutOfBoundsException if the given index is negative or larger than the reference array length.
 */
protected void ensureElement( final int index ) {
    if ( index < 0 ) throw new IndexOutOfBoundsException( "Index (" + index + ") is negative" );
    if ( index >= refArray.length ) throw new IndexOutOfBoundsException( "Index (" + index + ") is larger than or
equal to reference array size (" + refArray.length + ")" );
}

/** Enqueues a new element.
 *
 * <P>Note that for efficiency reasons this method will <em>not</em> throw an exception
 * when <code>x</code> is already in the queue. However, the queue state will become
 * inconsistent and the following behaviour will not be predictable.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void enqueue( int x ) {
    ensureElement( x );

    if ( size == array.length
    ) array = IntArrays.grow( array, size + 1 );
    if ( firstIndexValid ) {
        if ( c == null ) { if ( KEY_LESS( refArray[ x ], refArray[ array[ firstIndex ] ] ) ) firstIndex = size; }
        else if ( c.compare( refArray[ x ], refArray[ array[ firstIndex ] ] ) < 0 ) firstIndex = size;
    }
    else firstIndexValid = false;
    array[ size++ ] = x;
}

public int dequeue() {

```

```

ensureNonEmpty();
final int firstIndex = findFirst();
final int result = array[ firstIndex ];
if ( --size != 0 ) System.arraycopy( array, firstIndex + 1, array, firstIndex, size - firstIndex );
firstIndexValid = false;
return result;
}

```

```

public int first() {
    ensureNonEmpty();
    return array[ findFirst() ];
}

```

```

public int last() {
    ensureNonEmpty();
    return array[ findLast() ];
}

```

```

public void changed() {
    ensureNonEmpty();
    firstIndexValid = false;
}

```

```

/** {@inheritDoc}
 *
 * <P>Note that for efficiency reasons this method will <em>not</em> throw an exception
 * when <code>index</code> is not
in the queue.
 */

```

```

public void changed( int index ) {
    ensureElement( index );
    if ( index == firstIndex ) firstIndexValid = false;
}

```

```

public void allChanged() {
    firstIndexValid = false;
}

```

```

public boolean remove( int index ) {
    ensureElement( index );
    final int[] a = array;
    int i = size;
    while( i-- != 0 ) if ( a[ i ] == index ) break;
    if ( i < 0 ) return false;
    firstIndexValid = false;
    if ( --size != 0 ) System.arraycopy( a, i + 1, a, i, size - i );
    return true;
}

```

```

}

public int front( int[] a ) {
    final KEY_GENERIC_TYPE top = refArray[ array[ findFirst() ] ];
    int i = size, c = 0;
    while( i-- != 0 ) if ( KEY_EQUALS_NOT_NULL( top, refArray[ array[ i ] ] ) ) a[ c++ ] = array[ i ];
    return c;
}

public int size() { return size; }

public void clear() { size = 0; firstIndexValid = false; }

/** Trims the backing array so that it has exactly {@link #size()} elements.
 */

public void trim() {
    array = IntArrays.trim( array, size );
}

public KEY_COMPARATOR
KEY_SUPER_GENERIC comparator() { return c; }

public String toString() {
    StringBuffer s = new StringBuffer();
    s.append( "[" );
    for ( int i = 0; i < size; i++ ) {
        if ( i != 0 ) s.append( ", " );
        s.append( refArray[ array [ i ] ] );
    }
    s.append( "]" );
    return s.toString();
}

#ifdef TEST
private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #elif #keyclass(Object)
        return Integer.toBinaryString( r.nextInt() );
    #else
        return new java.io.Serializable() {};
    #endif
}

```

```

#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return
    format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    int i, j, s;
    ARRAY_INDIRECT_PRIORITY_QUEUE[] m = new ARRAY_INDIRECT_PRIORITY_QUEUE[ 100000 ];
    HEAP_INDIRECT_PRIORITY_QUEUE[] t = new HEAP_INDIRECT_PRIORITY_QUEUE[ m.length ];
    KEY_TYPE k[] = new KEY_TYPE[n];
    KEY_TYPE nk[] = new KEY_TYPE[m.length];
    long ms;

    for( i = 0; i < n; i++ ) k[i] = genKey();
    for( i = 0; i < m.length; i++ ) nk[i] = genKey();

    double totEnq = 0, totDeq = 0, totChange = 0, d;

    for( i = 0; i < m.length; i++ ) {
        t[ i ] = new HEAP_INDIRECT_PRIORITY_QUEUE( k );
        m[ i ] = new ARRAY_INDIRECT_PRIORITY_QUEUE( k );
    }

    if ( comp ) {
        for( j = 0; j < 20; j++ ) {

            for( i = 0; i < m.length; i++ ) t[ i ].clear();

            ms = System.currentTimeMillis();
            s = m.length;
            while( s-- != 0 ) { i = n; while( i-- != 0 ) t[ s ].enqueue( i ); }
            d = System.currentTimeMillis() - ms;
            if ( j > 2 ) totEnq += d;
            System.out.print("Enqueue:
" + format( m.length * n/d ) + " K/s ");

            ms = System.currentTimeMillis();
            s = m.length;
            while( s-- != 0 ) { i = n; while( i-- != 0 ) { k[ t[ s ].first() ] = nk[ i ]; t[ s ].changed(); } }
            d = System.currentTimeMillis() - ms;
            if ( j > 2 ) totChange += d;

```

```

System.out.print("Change: " + format( m.length * n/d ) + " K/s " );

ms = System.currentTimeMillis();
s = m.length;
while( s-- != 0 ) { i = n; while( i-- != 0 ) t[ s ].dequeue(); }
d = System.currentTimeMillis() - ms;
if ( j > 2 ) totDeq += d;
System.out.print("Dequeue: " + format( m.length * n/d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "Heap: Enqueue: " + format( m.length * (j-3)*n/totEnq ) + " K/s Dequeue: " + format( m.length
* (j-3)*n/totDeq ) + " K/s Change: " + format( m.length * (j-3)*n/totChange ) + " K/s" );

System.out.println();

totEnq = totChange = totDeq = 0;

}

for( j = 0; j < 20; j++ ) {

for(
i = 0; i < m.length; i++ ) m[ i ].clear();

ms = System.currentTimeMillis();
s = m.length;
while( s-- != 0 ) { i = n; while( i-- != 0 ) m[ s ].enqueue( i ); }
d = System.currentTimeMillis() - ms;
if ( j > 2 ) totEnq += d;
System.out.print("Enqueue: " + format( m.length * n/d ) + " K/s " );

ms = System.currentTimeMillis();
s = m.length;
while( s-- != 0 ) { i = n; while( i-- != 0 ) { k[ m[ s ].first() ] = nk[ i ]; m[ s ].changed(); } }
d = System.currentTimeMillis() - ms;
if ( j > 2 ) totChange += d;
System.out.print("Change: " + format( m.length * n/d ) + " K/s " );

ms = System.currentTimeMillis();
s = m.length;
while( s-- != 0 ) { i = n; while( i-- != 0 ) m[ s ].dequeue(); }
d = System.currentTimeMillis() - ms;
if ( j > 2 ) totDeq += d;
System.out.print("Dequeue: " + format( m.length * n/d ) + " K/s " );

```

```

    System.out.println();
}

    System.out.println();
    System.out.println( "Array: Enqueue: " + format(
m.length * (j-3)*n/totEnq ) + " K/s Dequeue: " + format( m.length * (j-3)*n/totDeq ) + " K/s Change: " + format(
m.length * (j-3)*n/totChange ) + " K/s" );

    System.out.println();
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static boolean heapEqual( int[] a, int[] b, int sizea, int sizeb ) {
    if ( sizea != sizeb ) return false;
    KEY_TYPE[] aa = new KEY_TYPE[ sizea ];
    KEY_TYPE[] bb = new KEY_TYPE[ sizea ];
    for( int i = 0; i < sizea; i++ ) {
        aa[ i ] = ref[ a[ i ] ];
        bb[ i ] = ref[ b[ i ] ];
    }
    java.util.Arrays.sort( aa );
    java.util.Arrays.sort( bb );
    while( sizea-- != 0 ) if ( !KEY_EQUALS(aa[sizea], bb[sizea]) ) return false;
    return true;
}

private static KEY_TYPE[] ref;

protected static void test( int n ) {
    long ms;
    Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds,
mThrowsNoElement, tThrowsNoElement;
    int rm = 0, rt = 0;

    ref = new KEY_TYPE[ n ];

    for( int i = 0; i < n; i++ ) ref[ i ] = genKey();
}

```

```

ARRAY_INDIRECT_PRIORITY_QUEUE m = new ARRAY_INDIRECT_PRIORITY_QUEUE( ref );
HEAP_INDIRECT_PRIORITY_QUEUE t = new HEAP_INDIRECT_PRIORITY_QUEUE( ref );

/* We add pairs to t. */
for( int i = 0; i < n / 2; i++ ) {
    t.enqueue( i );
    m.enqueue( i );
}

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t differ after creation (" + m + ",
" + t + ")" );

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++) {
    if ( r.nextDouble() < 0.01 ) {
        t.clear();
        m.clear();
        for( int j = 0; j < n / 2; j++ ) {
            t.enqueue( j );
            m.enqueue( j );
        }
    }
}

int T = r.nextInt( 2 * n );

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try
{
    t.enqueue( T );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }

if ( tThrowsIllegal == null ) { // To skip duplicates
    try {
        m.enqueue( T );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
}

mThrowsIllegal = tThrowsIllegal = null; // To skip duplicates

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): enqueue()

```

```

divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds
+ ")");
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t differ after
enqueue (" + m + ", " + t + ")");

if ( m.size() != 0 ) {
ensure( KEY_EQUALS( ref[ m.first() ], ref[ t.first() ] ), "Error (" + seed + "): m and t differ in first element after
enqueue (" + m.first() + "->" + ref[ m.first() ] + ", " + t.first() + "->" + ref[ t.first() ] + ")");
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
rm = m.dequeue();
while( ! m.isEmpty() && KEY_EQUALS( ref[ m.first() ], ref[ rm ] ) ) m.dequeue();
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = e; }

try {
rt = t.dequeue();
while( ! t.isEmpty() && KEY_EQUALS( ref[ t.first() ], ref[ rt ] ) ) t.dequeue();
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal =
e; }
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): dequeue()
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): dequeue() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): dequeue()
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if ( mThrowsOutOfBounds == null ) ensure( KEY_EQUALS( ref[ rt ], ref[ rm ] ), "Error (" + seed + "): divergence
in dequeue() between m and t (" + rm + "->" + ref[ rm ] + ", " + rt + "->" + ref[ rt ] + ")");

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t
differ after dequeue (" + m + ", " + t + ")");

if ( m.size() != 0 ) {
ensure( KEY_EQUALS( ref[ m.first() ], ref[ t.first() ] ), "Error (" + seed + "): m and t differ in first element after

```

```

dequeue (" + m.first() + "->" + ref[ m.first() ] + ", " + t.first() + "->" + ref[ t.first() ] + ")");
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

int pos = r.nextInt( n * 2 );

try {
    m.remove( pos );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = e; }

try {
    t.remove( pos );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = e; }

ensure( ( mThrowsOutOfBounds == null ) == (
tThrowsOutOfBounds == null ), "Error (" + seed + "): remove(int) divergence in IndexOutOfBoundsException (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );
ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): remove(int) divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): remove(int)
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t differ after remove(int) (" + m
+ ", " + t + ")" );

if ( m.size() != 0 ) {
    ensure( KEY_EQUALS( ref[ m.first() ], ref[ t.first() ] ), "Error (" + seed + "): m and t differ in first element after
remove(int) (" + m.first() + "->" + ref[ m.first() ] + ", " + t.first() + "->" + ref[ t.first() ] + ")" );
}

mThrowsNoElement
= tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal = tThrowsIllegal = null;

pos = r.nextInt( n );

try {
    t.changed( pos );
}

```

```

catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = e; }
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = e; }

if ( tThrowsIllegal == null ) {
    try {
        m.changed( pos );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = e; }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = e; }
}

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + seed + "): change(int)
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );
//ensure( ( mThrowsIllegal == null ) == ( tThrowsIllegal == null ), "Error (" + seed + "): change(int) divergence
in IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
ensure( ( mThrowsNoElement == null ) == ( tThrowsNoElement == null ), "Error (" + seed + "): change(int)
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t differ after change(int) (" + m +
", " + t + ")" );

if ( m.size() != 0 ) {
    ensure( KEY_EQUALS( ref[ m.first() ], ref[ t.first() ] ), "Error (" + seed + "): m and t differ in first element after
change(int) (" + m.first() + "->" + ref[ m.first() ] + ", " + t.first() + "->" + ref[ t.first() ] + ")" );
}

int[] temp = (int[])t.heap.clone();
java.util.Arrays.sort( temp, 0, t.size() ); // To scramble a bit
m = new ARRAY_INDIRECT_PRIORITY_QUEUE( m.refArray, temp, t.size() );

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t differ after wrap (" + m +
", " + t + ")" );

if ( m.size() != 0 ) {
    ensure( KEY_EQUALS( ref[ m.first() ], ref[ t.first() ] ), "Error (" + seed + "): m and t differ in first element after
wrap (" + m.first() + "->" + ref[ m.first() ] + ", " + t.first() + "->" + ref[ t.first() ] + ")" );
}

if ( m.size() != 0 && ( ( new it.unimi.dsi.fastutil.ints.IntOpenHashSet( m.array, 0, m.size ) ).size() == m.size() ) ) {

    int first = m.first();
    ref[ first ] = genKey();

    //System.err.println("Pre-change m: " +m );
    //System.err.println("Pre-change t: " +t );
    m.changed();
}

```

```

t.changed( first );

//System.err.println("Post-change m: " +m );
//System.err.println("Post-change t: " +t );

ensure( heapEqual( m.array, t.heap, m.size(), t.size() ), "Error (" + seed + "): m and t differ after change (" + m + ", "
+ t + ")");

if ( m.size() != 0 ) {
    ensure( KEY_EQUALS( ref[ m.first() ], ref[ t.first() ] ), "Error (" + seed + "): m and t differ in first element after
change
(" + m.first() + "->" + ref[ m.first() ] + ", " + t.first() + "->" + ref[ t.first() ] + ")");
}
}
}

/* Now we check that m actually holds the same data. */

m.clear();
ensure( m.isEmpty(), "Error (" + seed + "): m is not empty after clear()" );

System.out.println("Test OK");
}

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif
}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/ArrayIndirectPriorityQueue.drv

```

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```
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 */
```

```
package PACKAGE;
```

```
import java.util.Collection;
import java.util.Comparator;
import java.util.Iterator;
import java.util.SortedSet;
import java.util.NoSuchElementException;
```

```
/** A type-specific AVL tree set with a fast, small-footprint implementation.
 *
 * <P>The iterators provided by this class are type-specific
 * { @link
 * it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
 * Moreover, the iterator returned by <code>iterator()</code> can be safely cast
 * to a type-specific { @linkplain java.util.ListIterator list iterator}.
 */
```

```
public class AVL_TREE_SET KEY_GENERIC extends ABSTRACT_SORTED_SET KEY_GENERIC
implements java.io.Serializable, Cloneable, SORTED_SET KEY_GENERIC {
```

```
/** A reference to the root entry. */
protected transient Entry KEY_GENERIC tree;
```

```
/** Number of elements in this set. */
protected int count;
```

```
/** The entry of the first element of this set. */
protected transient Entry KEY_GENERIC firstEntry;
```

```

/** The entry of the last element of this set. */
protected transient Entry KEY_GENERIC lastEntry;

/** This set's comparator, as provided in the constructor. */
protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;

/** This set's actual comparator; it may differ from {@link #storedComparator} because it is
always a type-specific comparator,
so it could be derived from the former by wrapping. */
protected transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;

private static final long serialVersionUID = -7046029254386353130L;

private static final boolean ASSERTS = ASSERTS_VALUE;

{
allocatePaths();
}

/** Creates a new empty tree set.
*/

public AVL_TREE_SET() {
tree = null;
count = 0;
}

/** Generates the comparator that will be actually used.
*
* <P>When a specific {@link Comparator} is specified and stored in {@link
* #storedComparator}, we must check whether it is type-specific. If it is
* so, we can use it directly, and we store it in {@link #actualComparator}. Otherwise,
* we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
* and makes it into a type-specific one.
*/
private void setActualComparator() {
#if #keyclass(Object)
actualComparator = storedComparator;
#else
/* If the provided comparator is already type-specific, we use it.
Otherwise,
we use a wrapper anonymous class to fake that it is type-specific. */
if ( storedComparator == null || storedComparator instanceof KEY_COMPARATOR ) actualComparator =
(KEY_COMPARATOR)storedComparator;
else actualComparator = new KEY_COMPARATOR KEY_GENERIC() {
public int compare( KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2 ) {
return storedComparator.compare( KEY2OBJ( k1 ), KEY2OBJ( k2 ) );
}
}
}

```

```

    public int compare( KEY_CLASS ok1, KEY_CLASS ok2 ) {
        return storedComparator.compare( ok1, ok2 );
    }
};
#endif
}

/** Creates a new empty tree set with the given comparator.
 *
 * @param c a {@link Comparator} (even better, a type-specific comparator).
 */

public AVL_TREE_SET( final Comparator<? super KEY_GENERIC_CLASS> c ) {
    this();
    storedComparator = c;
    setActualComparator();
}

/** Creates a new tree set copying a given set.
 *
 * @param c a collection to be copied into the new tree set.
 */

public AVL_TREE_SET( final Collection<?
extends KEY_GENERIC_CLASS> c ) {
    this();
    addAll( c );
}

/** Creates a new tree set copying a given sorted set (and its {@link Comparator}).
 *
 * @param s a {@link SortedSet} to be copied into the new tree set.
 */

public AVL_TREE_SET( final SortedSet <KEY_GENERIC_CLASS> s ) {
    this( s.comparator() );
    addAll( s );
}

/** Creates a new tree set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new tree set.
 */

public AVL_TREE_SET( final COLLECTION KEY_EXTENDS_GENERIC c ) {
    this();
}

```

```

    addAll( c );
}

/** Creates a new tree set copying a given type-specific sorted set (and its {@link Comparator}).
 *
 * @param s a type-specific sorted set to be copied into the new tree set.
 */

public AVL_TREE_SET( final SORTED_SET KEY_GENERIC s ) {
    this( s.comparator() );
    addAll( s );
}

/** Creates a new tree set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific
iterator whose elements will fill the set.
 */

public AVL_TREE_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i ) {
    while( i.hasNext() ) add( i.NEXT_KEY() );
}

#if #keys(primitive)

/** Creates a new tree set using elements provided by an iterator.
 *
 * @param i an iterator whose elements will fill the set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public AVL_TREE_SET( final Iterator<?> i ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ) );
}

#endif

/** Creates a new tree set and fills it with the elements of a given array using a given {@link Comparator}.
 *
 * @param a an array whose elements will be used to fill the set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 * @param c a {@link Comparator} (even better, a type-specific comparator).
 */

public AVL_TREE_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length, final Comparator<?
super KEY_GENERIC_CLASS> c ) {

```

```

this( c );
ARRAYS.ensureOffsetLength(
a, offset, length );
for( int i = 0; i < length; i++ ) add( a[ offset + i ] );
}

/** Creates a new tree set and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 */

public AVL_TREE_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length ) {
this( a, offset, length, null );
}

/** Creates a new tree set copying the elements of an array.
 *
 * @param a an array to be copied into the new tree set.
 */

public AVL_TREE_SET( final KEY_GENERIC_TYPE[] a ) {
this();
int i = a.length;
while( i-- != 0 ) add( a[ i ] );
}

/** Creates a new tree set copying the elements of an array using a given { @link Comparator}.
 *
 * @param a an array to be copied into the new tree set.
 * @param c a { @link Comparator} (even better, a type-specific comparator).
 */

public AVL_TREE_SET( final KEY_GENERIC_TYPE[]
a, final Comparator<? super KEY_GENERIC_CLASS> c ) {
this( c );
int i = a.length;
while( i-- != 0 ) add( a[ i ] );
}

/**

```

```

* The following methods implements some basic building blocks used by
* all accessors. They are (and should be maintained) identical to those used in AVLTreeMap.drv.
*
* The add()/remove() code is derived from Ben Pfaff's GNU libavl
* (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
* going on, you should have a look at the literate code contained therein
* first.
*/

/** Compares two keys in the right way.
*
* <P>This method uses the { @link #actualComparator} if it is non-null.
* Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo()}.
*
* @param k1 the first key.
* @param k2 the second key.
* @return a number smaller than, equal to or greater than 0, as usual
* (i.e., when k1 < k2, k1 = k2 or k1 > k2, respectively).
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
final int compare( final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2 ) {
    return actualComparator == null ? KEY_CMP( k1, k2 ) : actualComparator.compare( k1, k2 );
}

/** Returns the entry corresponding to the given key, if it is in the tree; null, otherwise.
*
* @param k the key to search for.
* @return the corresponding entry, or null if no entry with the given key exists.
*/

private Entry KEY_GENERIC findKey( final KEY_GENERIC_TYPE k ) {
    Entry KEY_GENERIC e = tree;
    int cmp;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 )
        e = cmp < 0 ? e.left() : e.right();

    return e;
}

/** Locates a key.
*
* @param k a key.

```

```

* @return the last entry on a search for the given key; this will be
* the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
*/

```

```

final Entry KEY_GENERIC locateKey( final KEY_GENERIC_TYPE k
) {
    Entry KEY_GENERIC e = tree, last = tree;
    int cmp = 0;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 ) {
        last = e;
        e = cmp < 0 ? e.left() : e.right();
    }

    return cmp == 0 ? e : last;
}

```

```

/** This vector remembers the path followed during the current insertion. It suffices for
about 2<sup>32</sup> entries. */

```

```

private transient boolean dirPath[];

```

```

private void allocatePaths() {
    dirPath = new boolean[ 48 ];
}

```

```

public boolean add( final KEY_GENERIC_TYPE k ) {

```

```

    if ( tree == null ) { // The case of the empty tree is treated separately.

```

```

        count++;

```

```

        tree = lastEntry = firstEntry = new Entry KEY_GENERIC( k );

```

```

    }

```

```

    else {

```

```

        Entry KEY_GENERIC p = tree, q = null, y = tree, z = null, e = null, w = null;

```

```

        int cmp, i = 0;

```

```

        while( true ) {

```

```

            if ( ( cmp = compare( k, p.key ) ) == 0 ) return false;

```

```

            if ( p.balance() != 0 ) {

```

```

                i = 0;

```

```

                z = q;

```

```

                y = p;

```

```

            }

```

```

            if ( dirPath[ i++ ] = cmp > 0 ) {

```

```

                if ( p.succ() ) {

```

```

    count++;
    e
= new Entry KEY_GENERIC( k );

    if ( p.right == null ) lastEntry = e;

    e.left = p;
    e.right = p.right;

    p.right( e );

    break;
}

q = p;
p = p.right;
}
else {
    if ( p.pred() ) {
        count++;
        e = new Entry KEY_GENERIC( k );

        if ( p.left == null ) firstEntry = e;

        e.right = p;
        e.left = p.left;

        p.left( e );

        break;
    }

    q = p;
    p = p.left;
}
}

p = y;
i = 0;

while( p != e ) {
    if ( dirPath[ i ] ) p.incBalance();
    else p.decBalance();

    p = dirPath[ i++ ] ? p.right : p.left;
}

if ( y.balance() == -2 ) {

```

```
Entry KEY_GENERIC x = y.left;
```

```
if ( x.balance() == -1 ) {  
    w = x;  
    if ( x.succ() ) {  
        x.succ( false );  
        y.pred( x );  
    }  
    else y.left = x.right;  
  
    x.right = y;  
    x.balance( 0 );  
    y.balance( 0 );  
}  
else {  
    if ( ASSERTS  
) assert x.balance() == 1;
```

```
    w = x.right;  
    x.right = w.left;  
    w.left = x;  
    y.left = w.right;  
    w.right = y;  
    if ( w.balance() == -1 ) {  
        x.balance( 0 );  
        y.balance( 1 );  
    }  
    else if ( w.balance() == 0 ) {  
        x.balance( 0 );  
        y.balance( 0 );  
    }  
    else {  
        x.balance( -1 );  
        y.balance( 0 );  
    }  
    w.balance( 0 );
```

```
    if ( w.pred() ) {  
        x.succ( w );  
        w.pred( false );  
    }  
    if ( w.succ() ) {  
        y.pred( w );  
        w.succ( false );  
    }  
}
```

```

}
else if ( y.balance() == +2 ) {
    Entry KEY_GENERIC x = y.right;

    if ( x.balance() == 1 ) {
        w = x;
        if ( x.pred() ) {
            x.pred( false );
            y.succ( x );
        }
        else y.right = x.left;

        x.left = y;
        x.balance( 0 );
        y.balance( 0 );
    }
    else {
        if ( ASSERTS ) assert x.balance() == -1;

        w = x.left;
        x.left = w.right;
        w.right = x;
        y.right = w.left;
        w.left = y;
        if ( w.balance() ==
1 ) {
            x.balance( 0 );
            y.balance( -1 );
        }
        else if ( w.balance() == 0 ) {
            x.balance( 0 );
            y.balance( 0 );
        }
        else {
            x.balance( 1 );
            y.balance( 0 );
        }
        w.balance( 0 );

        if ( w.pred() ) {
            y.succ( w );
            w.pred( false );
        }
        if ( w.succ() ) {
            x.pred( w );
            w.succ( false );
        }
    }
}

```

```

    }
    }
    else return true;

    if ( z == null ) tree = w;
    else {
        if ( z.left == y ) z.left = w;
        else z.right = w;
    }
}

if ( ASSERTS ) checkTree( tree );
return true;
}

```

/** Finds the parent of an entry.

*

* @param e a node of the tree.

* @return the parent of the given node, or `null` for the root.

*/

```

private Entry KEY_GENERIC parent( final Entry KEY_GENERIC e ) {
    if ( e == tree ) return null;

```

```

    Entry KEY_GENERIC x, y, p;

```

```

    x = y = e;

```

```

    while( true ) {

```

```

        if ( y.succ() ) {

```

```

            p = y.right;

```

```

            if ( p == null || p.left != e ) {

```

```

                while( ! x.pred() ) x =

```

```

x.left;

```

```

                p = x.left;

```

```

            }

```

```

            return p;

```

```

        }

```

```

        else if ( x.pred() ) {

```

```

            p = x.left;

```

```

            if ( p == null || p.right != e ) {

```

```

                while( ! y.succ() ) y = y.right;

```

```

            p = y.right;

```

```

        }

```

```

        return p;

```

```

    }

    x = x.left;
    y = y.right;
    }
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean remove( final KEY_TYPE k ) {
    if ( tree == null ) return false;

    int cmp;
    Entry KEY_GENERIC p = tree, q = null;
    boolean dir = false;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

    while( true ) {
        if ( ( cmp = compare( kk, p.key ) ) == 0 ) break;
        else if ( dir = cmp > 0 ) {
            q = p;
            if ( ( p = p.right() ) == null ) return false;
        }
        else {
            q = p;
            if ( ( p = p.left() ) == null ) return false;
        }
    }

    if ( p.left == null ) firstEntry = p.next();
    if ( p.right == null ) lastEntry = p.prev();

    if ( p.succ() ) {
        if ( p.pred() ) {
            if ( q != null ) {
                if ( dir ) q.succ( p.right );
                else q.pred( p.left );
            }
            else tree = dir ? p.right
: p.left;
        }
        else {
            p.prev().right = p.right;

            if ( q != null ) {
                if ( dir ) q.right = p.left;
                else q.left = p.left;
            }
        }
    }
}

```

```

else tree = p.left;
}
}
else {
Entry KEY_GENERIC r = p.right;

if ( r.pred() ) {
r.left = p.left;
r.pred( p.pred() );
if ( ! r.pred() ) r.prev().right = r;
if ( q != null ) {
if ( dir ) q.right = r;
else q.left = r;
}
else tree = r;

r.balance( p.balance() );
q = r;
dir = true;

}
else {
Entry KEY_GENERIC s;

while( true ) {
s = r.left;
if ( s.pred() ) break;
r = s;
}

if ( s.succ() ) r.pred( s );
else r.left = s.right;

s.left = p.left;

if ( ! p.pred() ) {
p.prev().right = s;
s.pred( false );
}

s.right = p.right;
s.succ( false );

if ( q != null ) {
if ( dir ) q.right = s;
else q.left = s;
}
else tree = s;

```

```

s.balance( p.balance() );
q = r;
dir = false;
}
}

Entry
KEY_GENERIC y;

while( q != null ) {
y = q;
q = parent( y );

if ( ! dir ) {
dir = q != null && q.left != y;
y.incBalance();

if ( y.balance() == 1 ) break;
else if ( y.balance() == 2 ) {

Entry KEY_GENERIC x = y.right;
if ( ASSERTS ) assert x != null;

if ( x.balance() == -1 ) {
Entry KEY_GENERIC w;

if ( ASSERTS ) assert x.balance() == -1;

w = x.left;
x.left = w.right;
w.right = x;
y.right = w.left;
w.left = y;

if ( w.balance() == 1 ) {
x.balance( 0 );
y.balance( -1 );
}
else if ( w.balance() == 0 ) {
x.balance( 0 );
y.balance( 0 );
}
else {
if ( ASSERTS ) assert w.balance() == -1;

x.balance( 1 );
y.balance( 0 );

```

```

}

w.balance( 0 );

if ( w.pred() ) {
    y.succ( w );
    w.pred( false );
}
if ( w.succ() ) {
    x.pred( w );
    w.succ( false );
}

if
( q != null ) {
    if ( dir ) q.right = w;
    else q.left = w;
}
else tree = w;
}
else {
    if ( q != null ) {
        if ( dir ) q.right = x;
        else q.left = x;
    }
    else tree = x;

    if ( x.balance() == 0 ) {
        y.right = x.left;
        x.left = y;
        x.balance( -1 );
        y.balance( +1 );
        break;
    }

    if ( ASSERTS ) assert x.balance() == 1;

    if ( x.pred() ) {
        y.succ( true );
        x.pred( false );
    }
    else y.right = x.left;

    x.left = y;
    y.balance( 0 );
    x.balance( 0 );
}
}

```

```

}
else {
    dir = q != null && q.left != y;
    y.decBalance();

    if ( y.balance() == -1 ) break;
    else if ( y.balance() == -2 ) {

        Entry KEY_GENERIC x = y.left;
        if ( ASSERTS ) assert x != null;

        if ( x.balance() == 1 ) {
            Entry KEY_GENERIC w;

            if ( ASSERTS ) assert x.balance() == 1;

            w = x.right;
            x.right
= w.left;
            w.left = x;
            y.left = w.right;
            w.right = y;

            if ( w.balance() == -1 ) {
                x.balance( 0 );
                y.balance( 1 );
            }
            else if ( w.balance() == 0 ) {
                x.balance( 0 );
                y.balance( 0 );
            }
            else {
                if ( ASSERTS ) assert w.balance() == 1;

                x.balance( -1 );
                y.balance( 0 );
            }

            w.balance( 0 );

            if ( w.pred() ) {
                x.succ( w );
                w.pred( false );
            }
            if ( w.succ() ) {
                y.pred( w );
                w.succ( false );
            }

```

```

if ( q != null ) {
    if ( dir ) q.right = w;
    else q.left = w;
}
else tree = w;
}
else {
    if ( q != null ) {
        if ( dir ) q.right = x;
        else q.left = x;
    }
    else tree = x;

    if ( x.balance() == 0 ) {
        y.left = x.right;
        x.right = y;
        x.balance( +1 );
        y.balance( -1 );
        break;
    }

    if ( ASSERTS ) assert x.balance() == -1;

    if
( x.succ() ) {
        y.pred( true );
        x.succ( false );
    }
    else y.left = x.right;

    x.right = y;
    y.balance( 0 );
    x.balance( 0 );
}
}
}
}

count--;
if ( ASSERTS ) checkTree( tree );
return true;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains( final KEY_TYPE k ) {
    return findKey( KEY_GENERIC_CAST k ) != null;
}

```

```

#if #keyclass(Object)
SUPPRESS_WARNINGS_KEY_UNCHECKED
public K get( final KEY_TYPE k ) {
    final Entry KEY_GENERIC entry = findKey( KEY_GENERIC_CAST k );
    return entry == null ? null : entry.key;
}
#endif

public void clear() {
    count = 0;
    tree = null;
    firstEntry = lastEntry = null;
}

/** This class represent an entry in a tree set.
 *
 * <P>We use the only "metadata", i.e., { @link Entry#info}, to store
 * information about balance, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

private static
final class Entry KEY_GENERIC implements Cloneable {
    /** If the bit in this mask is true, { @link #right} points to a successor. */
    private final static int SUCC_MASK = 1 << 31;
    /** If the bit in this mask is true, { @link #left} points to a predecessor. */
    private final static int PRED_MASK = 1 << 30;
    /** The bits in this mask hold the node balance info. You can get it just by casting to byte. */
    private final static int BALANCE_MASK = 0xFF;
    /** The key of this entry. */
    KEY_GENERIC_TYPE key;
    /** The pointers to the left and right subtrees. */
    Entry KEY_GENERIC left, right;
    /** This integers holds different information in different bits (see { @link #SUCC_MASK}, { @link
    #PRED_MASK} and { @link #BALANCE_MASK}). */
    int info;

    Entry() {}

    /** Creates a new entry with the given key.
     *
     * @param k a key.
     */
    Entry( final KEY_GENERIC_TYPE k ) {

```

```

this.key = k;
info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
 *
 * @return
the left subtree (<code>>null</code> if the left
 * subtree is empty).
 */
Entry KEY_GENERIC left() {
return ( info & PRED_MASK ) != 0 ? null : left;
}

/** Returns the right subtree.
 *
 * @return the right subtree (<code>>null</code> if the right
 * subtree is empty).
 */
Entry KEY_GENERIC right() {
return ( info & SUCC_MASK ) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
return ( info & PRED_MASK ) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean succ() {
return ( info & SUCC_MASK ) != 0;
}

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred( final boolean pred ) {
if ( pred ) info |= PRED_MASK;
else info &=
~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.

```

```

*/
void succ( final boolean succ ) {
    if ( succ ) info |= SUCC_MASK;
    else info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessor.
 */
void pred( final Entry KEY_GENERIC pred ) {
    info |= PRED_MASK;
    left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ( final Entry KEY_GENERIC succ ) {
    info |= SUCC_MASK;
    right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param left the new left subtree.
 */
void left( final Entry KEY_GENERIC left ) {
    info &= ~PRED_MASK;
    this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.
 */
void right( final Entry KEY_GENERIC right ) {
    info &= ~SUCC_MASK;
    this.right
= right;
}

/** Returns the current level of the node.
 * @return the current level of this node.
 */
int balance() {
    return (byte)info;
}

/** Sets the level of this node.
 * @param level the new level of this node.

```

```

*/
void balance( int level ) {
    info &= ~BALANCE_MASK;
    info |= ( level & BALANCE_MASK );
}

/** Increments the level of this node. */
void incBalance() {
    info = info & ~BALANCE_MASK | ( (byte)info + 1 ) & 0xFF;
}

/** Decrements the level of this node. */
protected void decBalance() {
    info = info & ~BALANCE_MASK | ( (byte)info - 1 ) & 0xFF;
}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>>null</code>) if this is the last entry).
 */

Entry KEY_GENERIC next() {
    Entry KEY_GENERIC next = this.right;
    if ( ( info & SUCC_MASK ) == 0 ) while ( ( next.info & PRED_MASK ) == 0 ) next = next.left;
    return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */

Entry KEY_GENERIC prev() {
    Entry KEY_GENERIC prev = this.left;
    if ( ( info & PRED_MASK ) == 0 ) while ( ( prev.info & SUCC_MASK ) == 0 ) prev = prev.right;
    return prev;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Entry KEY_GENERIC clone() {
    Entry KEY_GENERIC c;
    try {
        c = (Entry KEY_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }
}

```

```

c.key = key;
c.info = info;

return c;
}

public boolean equals( final Object o ) {
if (!(o instanceof Entry)) return false;
Entry KEY_GENERIC_WILDCARD e = (Entry KEY_GENERIC_WILDCARD)o;

return KEY_EQUALS(key, e.key);
}

public int hashCode() {
return KEY2JAVAHASH_NOT_NULL(key);
}

public String toString() {
return String.valueOf( key );
}

/*
public void prettyPrint() {
prettyPrint(0);
}

public void
prettyPrint(int level) {
if ( pred() ) {
for (int i = 0; i < level; i++)
System.err.print(" ");
System.err.println("pred: " + left );
}
else if (left != null)
left.prettyPrint(level +1 );
for (int i = 0; i < level; i++)
System.err.print(" ");
System.err.println(key + " (" + level() + ")");
if ( succ() ) {
for (int i = 0; i < level; i++)
System.err.print(" ");
System.err.println("succ: " + right );
}
else if (right != null)
right.prettyPrint(level + 1);
}
}

```

```

    */
}

/*
    public void prettyPrint() {
        System.err.println("size: " + count);
        if (tree != null) tree.prettyPrint();
    }
    */

public int size() {
    return count;
}

public boolean isEmpty() {
    return count == 0;
}

public KEY_GENERIC_TYPE FIRST() {
    if ( tree == null ) throw new NoSuchElementException();
    return firstEntry.key;
}

public KEY_GENERIC_TYPE LAST() {
    if ( tree == null ) throw new NoSuchElementException();
    return
    lastEntry.key;
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class SetIterator extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC {
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#previous()} (or
    <code>null</code> if no previous entry exists). */
    Entry KEY_GENERIC prev;
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>null</code> if
    no next entry exists). */
    Entry KEY_GENERIC next;
    /** The last entry that was returned (or <code>null</code> if we did not iterate or used {@link #remove()}). */
    Entry KEY_GENERIC curr;
    /** The current index (in the sense of a {@link java.util.ListIterator}). Note that this value is not meaningful when
    this {@link SetIterator} has been created using the nonempty constructor.*/
    int index = 0;
}

```

```

SetIterator() {
    next = firstEntry;
}

SetIterator( final KEY_GENERIC_TYPE
k ) {
    if ( ( next = locateKey( k ) ) != null ) {
        if ( compare( next.key, k ) <= 0 ) {
            prev = next;
            next = next.next();
        }
        else prev = next.prev();
    }
}

public boolean hasNext() { return next != null; }
public boolean hasPrevious() { return prev != null; }

void updateNext() {
    next = next.next();
}

Entry KEY_GENERIC nextEntry() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    curr = prev = next;
    index++;
    updateNext();
    return curr;
}

public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

void updatePrevious() {
    prev = prev.prev();
}

Entry KEY_GENERIC previousEntry() {
    if ( ! hasPrevious() ) throw new NoSuchElementException();
    curr = next = prev;
    index--;
    updatePrevious();
    return curr;
}

public int nextIndex() {
    return index;
}

```

```

public int previousIndex() {
    return index - 1;
}

public void
remove() {
    if ( curr == null ) throw new IllegalStateException();
    /* If the last operation was a next(), we are removing an entry that precedes
       the current index, and thus we must decrement it. */
    if ( curr == prev ) index--;
    next = prev = curr;
    updatePrevious();
    updateNext();
    AVL_TREE_SET.this.remove( curr.key );
    curr = null;
}
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
    return new SetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) {
    return new SetIterator( from );
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) {
    return new Subset( KEY_NULL, true, to, false );
}

public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) {
    return new Subset( from, false, KEY_NULL, true );
}

public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to
) {
    return new Subset( from, false, to, false );
}
}

```

```

/** A subset with given range.
 *
 * <P>This class represents a subset. One has to specify the left/right
 * limits (which can be set to  $-\infty$ ; or  $\infty$ ;). Since the subset is a
 * view on the set, at a given moment it could happen that the limits of
 * the range are not any longer in the main set. Thus, things such as
 * { @link java.util.SortedSet#first\(\) } or { @link java.util.SortedSet#size\(\) } must be always computed
 * on-the-fly.
 */
private final class Subset extends ABSTRACT_SORTED_SET KEY_GENERIC implements java.io.Serializable,
SORTED_SET KEY_GENERIC {
    private static final long serialVersionUID = -7046029254386353129L;

    /** The start of the subset range, unless { @link #bottom } is true. */
    KEY_GENERIC_TYPE from;
    /** The end of the subset range, unless { @link #top } is true. */
    KEY_GENERIC_TYPE to;
    /** If true, the subset range starts from  $-\infty$ ;. */
    boolean bottom;
    /** If true, the subset
range goes to  $\infty$ ;. */
    boolean top;

    /** Creates a new subset with given key range.
 *
 * @param from the start of the subset range.
 * @param bottom if true, the first parameter is ignored and the range starts from  $-\infty$ ;.
 * @param to the end of the subset range.
 * @param top if true, the third parameter is ignored and the range goes to  $\infty$ ;.
 */
    public Subset( final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE to, final
boolean top ) {
        if ( ! bottom && ! top && AVL_TREE_SET.this.compare( from, to ) > 0 ) throw new IllegalArgumentException(
"Start element (" + from + ") is larger than end element (" + to + " ) );

        this.from = from;
        this.bottom = bottom;
        this.to = to;
        this.top = top;
    }

    public void clear() {
        final SubsetIterator i = new SubsetIterator();
        while( i.hasNext() ) {
            i.NEXT_KEY();
            i.remove();
        }
    }
}

```

```

/** Checks whether a key is in the subset range.
 * @param k a key.
 * @return
true if is the key is in the subset range.
 */
final boolean in( final KEY_GENERIC_TYPE k ) {
    return ( bottom || AVL_TREE_SET.this.compare( k, from ) >= 0 ) &&
        ( top || AVL_TREE_SET.this.compare( k, to ) < 0 );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains( final KEY_TYPE k ) {
    return in( KEY_GENERIC_CAST k ) && AVL_TREE_SET.this.contains( k );
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    if ( ! in( k ) ) throw new IllegalArgumentException( "Element (" + k + ") out of range [" + ( bottom ? "-" :
String.valueOf( from ) ) + ", " + ( top ? "-" : String.valueOf( to ) ) + "]" );
    return AVL_TREE_SET.this.add( k );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean remove( final KEY_TYPE k ) {
    if ( ! in( KEY_GENERIC_CAST k ) ) return false;
    return AVL_TREE_SET.this.remove( k );
}

public int size() {
    final SubsetIterator i = new SubsetIterator();
    int n = 0;

    while( i.hasNext() ) {
        n++;
        i.NEXT_KEY();
    }

    return
n;
}

public boolean isEmpty() {
    return ! new SubsetIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

```

```

}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
    return new SubsetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) {
    return new SubsetIterator( from );
}

public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) {
    if ( top ) return new Subset( from, bottom, to, false );
    return compare( to, this.to ) < 0 ? new Subset( from, bottom, to, false ) : this;
}

public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) {
    if ( bottom ) return new Subset( from, false, to, top );
    return compare( from, this.from ) > 0 ? new Subset( from, false, to, top ) : this;
}

public SORTED_SET KEY_GENERIC subSet( KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to ) {
    if ( top && bottom ) return new Subset( from, false,
to, false );
    if ( ! top ) to = compare( to, this.to ) < 0 ? to : this.to;
    if ( ! bottom ) from = compare( from, this.from ) > 0 ? from : this.from;
    if ( ! top && ! bottom && from == this.from && to == this.to ) return this;
    return new Subset( from, false, to, false );
}

/** Locates the first entry.
 *
 * @return the first entry of this subset, or <code>null</code> if the subset is empty.
 */
public AVL_TREE_SET.Entry KEY_GENERIC firstEntry() {
    if ( tree == null ) return null;
    // If this subset goes to -infinity, we return the main set first entry; otherwise, we locate the start of the set.
    AVL_TREE_SET.Entry KEY_GENERIC e;
    if ( bottom ) e = firstEntry();
    else {
        e = locateKey( from );
        // If we find either the start or something greater we're OK.
        if ( compare( e.key, from ) < 0 ) e = e.next();
    }
    // Finally, if this subset doesn't go to infinity, we check that the resulting key isn't greater than the end.
    if ( e == null
|| ! top && compare( e.key, to ) >= 0 ) return null;
    return e;
}

```

```

}

/** Locates the last entry.
 *
 * @return the last entry of this subset, or <code>null</code> if the subset is empty.
 */
public AVL_TREE_SET.Entry KEY_GENERIC lastEntry() {
    if ( tree == null ) return null;
    // If this subset goes to infinity, we return the main set last entry; otherwise, we locate the end of the set.
    AVL_TREE_SET.Entry KEY_GENERIC e;
    if ( top ) e = lastEntry();
    else {
        e = locateKey( to );
        // If we find something smaller than the end we're OK.
        if ( compare( e.key, to ) >= 0 ) e = e.prev();
    }
    // Finally, if this subset doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
    if ( e == null || ! bottom && compare( e.key, from ) < 0 ) return null;
    return e;
}

public KEY_GENERIC_TYPE FIRST() {
    AVL_TREE_SET.Entry KEY_GENERIC e = firstEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

public
KEY_GENERIC_TYPE LAST() {
    AVL_TREE_SET.Entry KEY_GENERIC e = lastEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

/** An iterator for subranges.
 *
 * <P>This class inherits from { @link SetIterator}, but overrides the methods that
 * update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
 would
 * move out of the range of the subset we just overwrite the next or previous
 * entry with <code>null</code>.
 */
private final class SubsetIterator extends SetIterator {
    SubsetIterator() {
        next = firstEntry();
    }
}

```

```

SubsetIterator( final KEY_GENERIC_TYPE k ) {
    this();

    if ( next != null ) {
        if ( ! bottom && compare( k, next.key ) < 0 ) prev = null;
        else if ( ! top && compare( k, ( prev = lastEntry() ).key ) >= 0 ) next = null;
        else {
            next = locateKey( k );

            if ( compare( next.key, k ) <= 0 ) {
                prev = next;
                next
= next.next();
            }
            else prev = next.prev();
        }
    }

    void updatePrevious() {
        prev = prev.prev();
        if ( ! bottom && prev != null && AVL_TREE_SET.this.compare( prev.key, from ) < 0 ) prev = null;
    }

    void updateNext() {
        next = next.next();
        if ( ! top && next != null && AVL_TREE_SET.this.compare( next.key, to ) >= 0 ) next = null;
    }
}

/** Returns a deep copy of this tree set.
 *
 * <P>This method performs a deep copy of this tree set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this tree set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Object clone() {
    AVL_TREE_SET KEY_GENERIC c;
    try {
        c = (AVL_TREE_SET KEY_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {

```

```

throw new InternalError();
}

c.allocatePaths();

if ( count != 0 ) {
    // Also this apparently unfathomable code is
    derived from GNU libavl.
    Entry KEY_GENERIC e, p, q, rp = new Entry KEY_GENERIC(), rq = new Entry KEY_GENERIC();

    p = rp;
    rp.left( tree );

    q = rq;
    rq.pred( null );

    while( true ) {
        if ( ! p.pred() ) {
            e = p.left.clone();
            e.pred( q.left );
            e.succ( q );
            q.left( e );

            p = p.left;
            q = q.left;
        }
        else {
            while( p.succ() ) {
                p = p.right;

                if ( p == null ) {
                    q.right = null;
                    c.tree = rq.left;

                    c.firstEntry = c.tree;
                    while( c.firstEntry.left != null ) c.firstEntry = c.firstEntry.left;
                    c.lastEntry = c.tree;
                    while( c.lastEntry.right != null ) c.lastEntry = c.lastEntry.right;

                    return c;
                }
                q = q.right;
            }

            p = p.right;
            q = q.right;
        }
    }
}

```

```

    if ( ! p.succ() ) {
        e = p.right.clone();
        e.succ( q.right );
        e.pred( q );
        q.right( e );
    }
}
}

return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws
java.io.IOException {
    int n = count;
    SetIterator i = new SetIterator();

    s.defaultWriteObject();
    while( n-- != 0 ) s.WRITE_KEY( i.NEXT_KEY() );
}

/** Reads the given number of entries from the input stream, returning the corresponding tree.
 *
 * @param s the input stream.
 * @param n the (positive) number of entries to read.
 * @param pred the entry containing the key that precedes the first key in the tree.
 * @param succ the entry containing the key that follows the last key in the tree.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
private Entry KEY_GENERIC readTree( final java.io.ObjectInputStream s, final int n, final Entry KEY_GENERIC
pred, final Entry KEY_GENERIC succ ) throws java.io.IOException, ClassNotFoundException {
    if ( n == 1 ) {
        final Entry KEY_GENERIC top = new Entry KEY_GENERIC( KEY_GENERIC_CAST s.READ_KEY() );
        top.pred( pred );
        top.succ( succ );

        return top;
    }

    if ( n == 2 ) {
        /* We handle separately this case so that recursion will

        *always* be on nonempty subtrees. */
        final Entry KEY_GENERIC top = new Entry KEY_GENERIC( KEY_GENERIC_CAST s.READ_KEY() );
        top.right( new Entry KEY_GENERIC( KEY_GENERIC_CAST s.READ_KEY() ) );
        top.right.pred( top );

```

```

top.balance( 1 );
top.pred( pred );
top.right.succ( succ );

return top;
}

// The right subtree is the largest one.
final int rightN = n / 2, leftN = n - rightN - 1;

final Entry KEY_GENERIC top = new Entry KEY_GENERIC();

top.left( readTree( s, leftN, pred, top ) );

top.key = KEY_GENERIC_CAST s.READ_KEY();

top.right( readTree( s, rightN, top, succ ) );

if ( n == ( n & -n ) ) top.balance( 1 ); // Quick test for determining whether n is a power of 2.

return top;
}

private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
/* The storedComparator is now correctly set, but we must restore
on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if
( count != 0 ) {
tree = readTree( s, count, null, null );
Entry KEY_GENERIC e;

e = tree;
while( e.left() != null ) e = e.left();
firstEntry = e;

e = tree;
while( e.right() != null ) e = e.right();
lastEntry = e;
}

if ( ASSERTS ) checkTree( tree );
}

```

```

#ifdef ASSERTS_CODE
private static KEY_GENERIC int checkTree( Entry KEY_GENERIC e ) {
    if ( e == null ) return 0;

    final int leftN = checkTree( e.left() ), rightN = checkTree( e.right() );
    if ( leftN + e.balance() != rightN )
        throw new AssertionError( "Mismatch between left tree size ( " + leftN + " ), right tree size ( " + rightN + " ) and
balance ( " + e.balance() + " )" );

    return Math.max( leftN , rightN ) + 1;
}
#else
private static KEY_GENERIC int checkTree( @SuppressWarnings("unused") Entry KEY_GENERIC e ) { return 0;
}
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private
static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
    return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
    return r.NEXT_KEY();
#else
    return Integer.toBinaryString( r.nextInt() );
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    int i, j;
    AVL_TREE_SET m;
    java.util.TreeSet t;
    KEY_TYPE k[] = new KEY_TYPE[n];
    KEY_TYPE nk[] = new KEY_TYPE[n];
    long ms;

```

```

for( i = 0; i < n; i++ ) {
    k[i] = genKey();
    nk[i] = genKey();
}

double totAdd = 0, totYes = 0, totNo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd;

if ( comp ) {
    for( j = 0; j < 20; j++ ) {

        t = new java.util.TreeSet();

        /*
We first add all pairs to t. */
        for( i = 0; i < n; i++ ) t.add( KEY2OBJ( k[i] ) );

        /* Then we remove the first half and put it back. */
        for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );

        ms = System.currentTimeMillis();
        for( i = 0; i < n/2; i++ ) t.add( KEY2OBJ( k[i] ) );
        d = System.currentTimeMillis() - ms;

        /* Then we remove the other half and put it back again. */
        ms = System.currentTimeMillis();
        for( i = n/2; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
        dd = System.currentTimeMillis() - ms ;

        ms = System.currentTimeMillis();
        for( i = n/2; i < n; i++ ) t.add( KEY2OBJ( k[i] ) );
        d += System.currentTimeMillis() - ms;
        if ( j > 2 ) totAdd += n/d;
        System.out.print("Add: " + format( n/d ) + " K/s " );

        /* Then we remove again the first half. */
        ms = System.currentTimeMillis();
        for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );
        dd += System.currentTimeMillis() - ms ;
        if ( j > 2 ) totRemYes
+= n/dd;
        System.out.print("RemYes: " + format( n/dd ) + " K/s " );

        /* And then we put it back. */
        for( i = 0; i < n/2; i++ ) t.add( KEY2OBJ( k[i] ) );

        /* We check for pairs in t. */
        ms = System.currentTimeMillis();
        for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( k[i] ) );

```

```

d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( nk[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );

/* We iterate on t. */
ms = System.currentTimeMillis();
for( Iterator it = t.iterator(); it.hasNext(); it.next() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format(
d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "java.util Add: " + format( totAdd/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + " K/s IterFor: " + format( totIterFor/(j-3) ) + "
K/s" );

System.out.println();

totAdd = totYes = totNo = totIterFor = totIterBack = totRemYes = 0;

}

for( j = 0; j < 20; j++ ) {

m = new AVL_TREE_SET();

/* We first add all pairs to m. */
for( i = 0; i < n; i++ ) m.add( k[i] );

/* Then we remove the first half and put it back. */
for( i = 0; i < n/2; i++ ) m.remove( k[i] );

ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.add( k[i] );
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */

```

```

ms = System.currentTimeMillis();
for( i = n/2; i < n; i++ ) m.remove( k[i] );
dd = System.currentTimeMillis() - ms ;

ms
= System.currentTimeMillis();
for( i = n/2; i < n; i++ ) m.add( k[i] );
d += System.currentTimeMillis() - ms;
if ( j > 2 ) totAdd += n/d;
System.out.print("Add: " + format( n/d ) +" K/s " );

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.remove( k[i] );
dd += System.currentTimeMillis() - ms ;
if ( j > 2 ) totRemYes += n/dd;
System.out.print("RemYes: " + format( n/dd ) +" K/s " );

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) m.add( k[i] );

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.contains( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) +" K/s " );

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.contains( nk[i] );
d = 1.0 * n / (System.currentTimeMillis() -
ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) +" K/s " );

/* We iterate on m. */
KEY_LIST_ITERATOR it = (KEY_LIST_ITERATOR)m.iterator();
ms = System.currentTimeMillis();
for( ; it.hasNext(); it.NEXT_KEY() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) +" K/s " );

/* We iterate back on m. */
ms = System.currentTimeMillis();
for( ; it.hasPrevious(); it.PREV_KEY() );
d = 1.0 * n / (System.currentTimeMillis() - ms );

```

```

if ( j > 2 ) totIterBack += d;
System.out.print("IterBack: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "fastutil Add: " + format( totAdd/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + " K/s IterFor: " + format( totIterFor/(j-3) ) + "
K/s IterBack: " + format( totIterBack/(j-3)
) + "K/s" );

System.out.println();
}

private static boolean valEquals(Object o1, Object o2) {
return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal( String msg ) {
System.out.println( msg );
System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
if ( cond ) return;
fatal( msg );
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static AVL_TREE_SET topSet;

protected static void testSets( SORTED_SET m, SortedSet t, int n, int level ) {
long ms;
boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
boolean rt = false, rm = false;

if ( level > 4 ) return;

/* Now we check that both sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
    m.first();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.first();
}
catch
( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
if ( ! mThrowsNoElement ) ensure( t.first().equals( m.first() ), "Error (" + level + ", " + seed + "): m and t differ at
start on their first key (" + m.first() + ", " + t.first() + ")" );

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.last();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.last();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): last() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

if ( ! mThrowsNoElement ) ensure( t.last().equals( m.last()
), "Error (" + level + ", " + seed + "): m and t differ at start on their last key (" + m.last() + ", " + t.last() + ")" );

/* Now we check that m and t are equal. */
if ( !m.equals( t ) || ! t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
}

```

```

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.iterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)" );
}

/* Now we check that inquiries about random
data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.contains(T);
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        t.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys
between t and m (polymorphic method)" );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }

```

```

catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

try {
    t.contains(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + " ) );
ensure(
mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + " ) );
if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)),
"Error (" + level + ", " + seed + "): divergence between t and m (standard method)" );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        rm = m.add(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        rt = t.add(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement
== tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in NoSuchElementException for " + T
+ " (" + mThrowsNoElement + ", " + tThrowsNoElement + " ) );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + " ) );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( rm == rt, "Error (" + level + ", " + seed + "): divergence in
add() between t and m" );

    T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
    rm = m.remove(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

try {
    rt = t.remove(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

ensure( mThrowsNoElement
== tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in NoSuchElementException for "
+ T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( rm == rt, "Error (" + level + ", " + seed + "): divergence in
remove() between t and m" );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal" );

/* Now we check that m actually holds the same data. */

for(Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)" );
}

/* Now we check that
m actually holds that data, but iterating on m. */

for(Iterator i=m.iterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)" );
}

/* Now we check that both sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.first();
}

```

```

catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.first();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
if ( ! mThrowsNoElement ) ensure( t.first().equals( m.first() ), "Error (" + level + ", " + seed + "): m and t differ on
their first key (" + m.first() + ", " + t.first() + ")" );

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement
= tThrowsIllegal = false;

try {
    m.last();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.last();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): last() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

if ( ! mThrowsNoElement ) ensure( t.last().equals( m.last() ), "Error (" + level + ", " + seed + "): m and t differ on
their last key (" + m.last() + ", " + t.last() + ")" );

/* Now we check cloning. */

if ( level == 0 ) {
    ensure( m.equals( ((AVL_TREE_SET)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal m.clone()"
);
    ensure( ((AVL_TREE_SET)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m"
);
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_SET m2 = null;

try {
    java.io.File

```

```

ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SORTED_SET)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit( 1 );
}

ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext();
) m2.remove(i.next());

ensure( m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)" );

/* Now we play with iterators. */

{
java.util.ListIterator i, j;
Object J;
i = (java.util.ListIterator)m.iterator();
j = new java.util.LinkedList( t ).listIterator();

for( int k = 0; k < 2*n; k++ ) {
ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()" );
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

if ( r.nextFloat() < .8 && i.hasNext() ) {
ensure( i.next().equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next()" );

if ( r.nextFloat() < 0.5 ) {

```

```

    i.remove();
    j.remove();
    t.remove( J );
}
}
else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
    ensure( i.previous().equals( J = j.previous() ), "Error ( " + level + ", " + seed + "): divergence
in previous()" );

    if ( r.nextFloat() < 0.5 ) {
        i.remove();
        j.remove();
        t.remove( J );
    }
}

ensure( i.nextIndex() == j.nextIndex(), "Error ( " + level + ", " + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error ( " + level + ", " + seed + "): divergence in previousIndex()" );

}

}

{
    boolean badPrevious = false;
    Object previous = null;
    it.unimi.dsi.fastutil.BidirectionalIterator i;
    java.util.ListIterator j;
    Object I, J;
    KEY_TYPE from = genKey();
    j = new java.util.LinkedList( t ).listIterator();
    while( j.hasNext() ) {
        Object k = j.next();
        if ( ((Comparable)k).compareTo( KEY2OBJ( from ) ) > 0 ) {
            badPrevious = true;
            j.previous();
            break;
        }
        previous = k;
    }

    i = (it.unimi.dsi.fastutil.BidirectionalIterator)m.iterator( from );

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error ( " + level + ", " + seed + "):
divergence in hasNext() (iterator with starting point " + from + ")" );
        ensure( i.hasPrevious() == j.hasPrevious() || badPrevious && ( i.hasPrevious() == ( previous != null ) ), "Error ( " +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" );

```

```

    if ( r.nextFloat() < .8 && i.hasNext() ) {
        ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")");
        //System.err.println("Done next " + I + " " + J + " " + badPrevious);

        badPrevious = false;

        if ( r.nextFloat() < 0.5 ) {
            //System.err.println("Removing in next");
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
    else if ( !badPrevious && r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure( ( I = i.previous() ).equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J
+ ", iterator with starting point " + from + ")");

        if ( r.nextFloat() < 0.5 ) {
            //System.err.println("Removing in prev");
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a subset. */

if ( ! m.isEmpty() ) {
    java.util.ListIterator i;
    Object start = m.first(), end = m.first();
    for( i = (java.util.ListIterator)m.iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next() );
    for( ; i.hasNext() && r.nextFloat() < .95; end = i.next() );

    //System.err.println("Checking subSet from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testSets( (SORTED_SET)m.subSet( (KEY_CLASS)start, (KEY_CLASS)end ), t.subSet( start,
end ), n, level + 1 );
}

```

```

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after subSet" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subSet" );

//System.err.println("Checking headSet to " + end + " (level=" + (level+1) + ")..." );
testSets( (SORTED_SET)m.headSet( (KEY_CLASS)end ), t.headSet( end ), n, level + 1 );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after headSet" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after headSet" );

//System.err.println("Checking tailSet from " + start + " (level=" + (level+1) + ")..." );
testSets( (SORTED_SET)m.tailSet( (KEY_CLASS)start ), t.tailSet( start ), n, level + 1 );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after tailSet" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after tailSet" );
}

}

private static void
test( int n ) {
    AVL_TREE_SET m = new AVL_TREE_SET();
    SortedSet t = new java.util.TreeSet();
    topSet = m;
    k = new Object[n];
    nk = new Object[n];
    kt = new KEY_TYPE[n];
    nkt = new KEY_TYPE[n];

    for( int i = 0; i < n; i++ ) {
#if #keyclass(Object)
        k[i] = kt[i] = genKey();
        nk[i] = nkt[i] = genKey();
#else
        k[i] = new KEY_CLASS( kt[i] = genKey() );
        nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
    }

    /* We add pairs to t. */
    for( int i = 0; i < n; i++ ) t.add( k[i] );

    /* We add to m the same data */
    m.addAll(t);

    testSets( m, t, n, 0 );
}

```

```
System.out.println("Test OK");
```

```
return;
```

```
}
```

```
public static void main( String args[] ) {
```

```
int n = Integer.parseInt(args[1]);
```

```
if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );
```

```
try {
```

```
if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
```

```
else if ( "test".equals( args[0] ) ) test(n);
```

```
} catch( Throwable
```

```
e ) {
```

```
e.printStackTrace( System.err );
```

```
System.err.println( "seed: " + seed );
```

```
}
```

```
}
```

```
#endif
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AVLTreeSet.drv
```

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```
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```
*/
```

```
package PACKAGE;
```

```

import it.unimi.dsi.fastutil.BigList;
import java.util.Collection;
import java.util.List;
import java.util.Random;

/** A class providing static methods and objects that do useful things with type-specific big lists.
 *
 * @see java.util.Collections
 * @see it.unimi.dsi.fastutil.BigList
 */

public
class BIG_LISTS {

    private BIG_LISTS() {}

    /** Shuffles the specified big list using the specified pseudorandom number generator.
     *
     * @param l the big list to be shuffled.
     * @param random a pseudorandom number generator (please use a XorShift generator).
     * @return l.
     */
    public static KEY_GENERIC BIG_LIST KEY_GENERIC shuffle( final BIG_LIST KEY_GENERIC l, final
    Random random ) {
        for( long i = l.size64(); i-- != 0; ) {
            final long p = ( random.nextLong() & 0x7FFFFFFFFFFFFFFFL ) % ( i + 1 );
            final KEY_GENERIC_TYPE t = l.GET_KEY( i );
            l.set( i, l.GET_KEY( p ) );
            l.set( p, t );
        }
        return l;
    }

    /** An immutable class representing an empty type-specific big list.
     *
     * <P>This class may be useful to implement your own in case you subclass
     * a type-specific list.
     */

    public static class EmptyBigList KEY_GENERIC extends COLLECTIONS.EmptyCollection KEY_GENERIC
    implements BIG_LIST KEY_GENERIC, java.io.Serializable, Cloneable {

        private static final long serialVersionUID = -7046029254386353129L;

        protected EmptyBigList() {}

```

```

public void add( final long index, final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException();
}
public boolean add( final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_TYPE REMOVE_KEY( long i ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_TYPE set( final long index, final KEY_GENERIC_TYPE k ) { throw new
UnsupportedOperationException(); }

public long indexOf( KEY_TYPE k ) { return -1; }
public long lastIndexOf( KEY_TYPE k ) { return -1; }

public boolean addAll( Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
public boolean addAll( long i, Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
public boolean removeAll( Collection<?> c
) { throw new UnsupportedOperationException(); }

public KEY_GENERIC_CLASS get( long i ) { throw new IndexOutOfBoundsException(); }

#if #keys(primitive)
public boolean addAll( COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean addAll( BIG_LIST c ) { throw new UnsupportedOperationException(); }
public boolean addAll( long i, COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean addAll( long i, BIG_LIST c ) { throw new UnsupportedOperationException(); }

public void add( final long index, final KEY_GENERIC_CLASS k ) { throw new
UnsupportedOperationException(); }
public boolean add( final KEY_GENERIC_CLASS k ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS set( final long index, final KEY_GENERIC_CLASS k ) { throw new
UnsupportedOperationException(); }
public KEY_GENERIC_TYPE GET_KEY( long i ) { throw new IndexOutOfBoundsException(); }

public KEY_GENERIC_CLASS remove( long k ) { throw new UnsupportedOperationException();
}

public long indexOf( Object k ) { return -1; }
public long lastIndexOf( Object k ) { return -1; }
#else
public boolean remove( Object k ) { throw new UnsupportedOperationException(); }
#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return
BIG_LIST_ITERATORS.EMPTY_BIG_LIST_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return
BIG_LIST_ITERATORS.EMPTY_BIG_LIST_ITERATOR; }

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( long i ) { if ( i == 0 ) return
BIG_LIST_ITERATORS.EMPTY_BIG_LIST_ITERATOR; throw new IndexOutOfBoundsException(
String.valueOf( i ) ); }

public BIG_LIST KEY_GENERIC subList( long from, long to ) { if ( from == 0 && to == 0 ) return this; throw
new IndexOutOfBoundsException(); }

public void getElements( long from, KEY_TYPE[][] a, long offset, long length ) {
BIG_ARRAYS.ensureOffsetLength(
a, offset, length ); if ( from != 0 ) throw new IndexOutOfBoundsException(); }
public void removeElements( long from, long to ) { throw new UnsupportedOperationException(); }

public void addElements( long index, final KEY_GENERIC_TYPE a[], long offset, long length ) { throw new
UnsupportedOperationException(); }
public void addElements( long index, final KEY_GENERIC_TYPE a[][] ) { throw new
UnsupportedOperationException(); }

public void size( long s ) { throw new UnsupportedOperationException(); }
public long size64() { return 0; }

public int compareTo( final BigList<? extends KEY_GENERIC_CLASS> o ) {
if ( o == this ) return 0;
return ((BigList<?>)o).isEmpty() ? 0 : -1;
}

private Object readResolve() { return EMPTY_BIG_LIST; }
public Object clone() { return EMPTY_BIG_LIST; }
}

/** An empty big list (immutable). It is serializable and cloneable.
*
* <P>The class of this objects represent an abstract empty list
* that is a sublist of
any type of list. Thus, { @link #EMPTY_BIG_LIST }
* may be assigned to a variable of any (sorted) type-specific list.
*/

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptyBigList EMPTY_BIG_LIST = new EmptyBigList();

/** An immutable class representing a type-specific singleton big list.
*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific big list.

```

```

*/

public static class Singleton KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC implements
java.io.Serializable, Cloneable {

    private static final long serialVersionUID = -7046029254386353129L;

    private final KEY_GENERIC_TYPE element;

    private Singleton( final KEY_GENERIC_TYPE element ) {
        this.element = element;
    }

    public KEY_GENERIC_TYPE GET_KEY( final long i ) { if ( i == 0 ) return element; throw new
IndexOutOfBoundsException(); }
    public KEY_GENERIC_TYPE REMOVE_KEY( final long i ) { throw new UnsupportedOperationException(); }
    public boolean contains(
final KEY_TYPE k ) { return KEY_EQUALS( k, element ); }

    public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
    public boolean addAll( final long i, final Collection <? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
    public boolean removeAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }
    public boolean retainAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }

    /* Slightly optimized w.r.t. the one in ABSTRACT_SET. */

    public KEY_TYPE[] TO_KEY_ARRAY() {
        KEY_TYPE a[] = new KEY_TYPE[ 1 ];
        a[ 0 ] = element;
        return a;
    }

    public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return BIG_LIST_ITERATORS.singleton(
element ); }

    public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }

    public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( long i ) {
        if ( i > 1 || i < 0 ) throw new IndexOutOfBoundsException();
        KEY_BIG_LIST_ITERATOR
KEY_GENERIC l = listIterator();
        if ( i == 1 ) l.next();
        return l;
    }

    SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public BIG_LIST KEY_GENERIC subList( final long from, final long to ) {
    ensureIndex( from );
    ensureIndex( to );
    if ( from > to ) throw new IndexOutOfBoundsException( "Start index (" + from + ") is greater than end index (" + to
+ ")" );

    if ( from != 0 || to != 1 ) return EMPTY_BIG_LIST;
    return this;
}

@Deprecated
public int size() { return 1; }
public long size64() { return 1; }
public void size( final long size ) { throw new UnsupportedOperationException(); }
public void clear() { throw new UnsupportedOperationException(); }

public Object clone() { return this; }

#if #keys(primitive)
public boolean rem( final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
public boolean addAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }
@Override
public boolean
addAll( final long i, final COLLECTION c ) { throw new UnsupportedOperationException(); }
#else
public boolean remove( Object k ) { throw new UnsupportedOperationException(); }
#endif

}

/** Returns a type-specific immutable big list containing only the specified element. The returned big list is
serializable and cloneable.
*
* @param element the only element of the returned big list.
* @return a type-specific immutable big list containing just <code>element</code>.
*/

public static KEY_GENERIC BIG_LIST KEY_GENERIC singleton( final KEY_GENERIC_TYPE element ) {
return new Singleton KEY_GENERIC( element ); }

#if ! #keys(reference)

/** Returns a type-specific immutable big list containing only the specified element. The returned big list is
serializable and cloneable.
*
* @param element the only element of the returned big list.
* @return a type-specific immutable big list containing just <code>element</code>.
*/

```

```

public static KEY_GENERIC BIG_LIST KEY_GENERIC
singleton( final Object element ) { return new Singleton KEY_GENERIC( KEY_OBJ2TYPE( element ) ); }

#endif

/** A synchronized wrapper class for big lists. */

public static class SynchronizedBigList KEY_GENERIC extends COLLECTIONS.SynchronizedCollection
KEY_GENERIC implements BIG_LIST KEY_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final BIG_LIST KEY_GENERIC list; // Due to the large number of methods that are not in
COLLECTION, this is worth caching.

    protected SynchronizedBigList( final BIG_LIST KEY_GENERIC l, final Object sync ) {
        super( l, sync );
        this.list = l;
    }

    protected SynchronizedBigList( final BIG_LIST KEY_GENERIC l ) {
        super( l );
        this.list = l;
    }

    public KEY_GENERIC_TYPE GET_KEY( final long i ) { synchronized( sync ) { return list.GET_KEY( i ); } }
    public KEY_GENERIC_TYPE set( final long i, final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return
list.set( i, k ); }
    }
    public void add( final long i, final KEY_GENERIC_TYPE k ) { synchronized( sync ) { list.add( i, k ); } }
    public KEY_GENERIC_TYPE REMOVE_KEY( final long i ) { synchronized( sync ) { return list.REMOVE_KEY(
i ); } }

    public long indexOf( final KEY_TYPE k ) { synchronized( sync ) { return list.indexOf( k ); } }
    public long lastIndexOf( final KEY_TYPE k ) { synchronized( sync ) { return list.lastIndexOf( k ); } }

    public boolean addAll( final long index, final Collection<? extends KEY_GENERIC_CLASS> c ) { synchronized(
sync ) { return list.addAll( index, c ); } }

    public void getElements( final long from, final KEY_TYPE a[], final long offset, final long length ) {
synchronized( sync ) { list.getElements( from, a, offset, length ); } }
    public void removeElements( final long from, final long to ) { synchronized( sync ) { list.removeElements( from, to
); } }
    public void addElements( long index, final KEY_GENERIC_TYPE a[], long offset, long length ) { synchronized(
sync

```

```

    ) { list.addElements( index, a, offset, length ); } }
    public void addElements( long index, final KEY_GENERIC_TYPE a[][] ) { synchronized( sync ) {
list.addElements( index, a ); } }
    public void size( final long size ) { synchronized( sync ) { list.size( size ); } }
    public long size64() { synchronized( sync ) { return list.size64(); } }

    public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return list.listIterator(); }
    public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return list.listIterator(); }
    public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final long i ) { return list.listIterator( i ); }

    public BIG_LIST KEY_GENERIC subList( final long from, final long to ) { synchronized( sync ) { return
synchronize( list.subList( from, to ), sync ); } }

    public boolean equals( final Object o ) { synchronized( sync ) { return list.equals( o ); } }
    public int hashCode() { synchronized( sync ) { return list.hashCode(); } }

#if !#keyclass(Reference)
    public int compareTo(
    final BigList<? extends KEY_GENERIC_CLASS> o ) { synchronized( sync ) { return list.compareTo( o ); } }
#endif

#if #keys(primitive)
    public boolean addAll( final long index, final COLLECTION c ) { synchronized( sync ) { return list.addAll( index,
c ); } }
    public boolean addAll( final long index, BIG_LIST l ) { synchronized( sync ) { return list.addAll( index, l ); } }
    public boolean addAll( BIG_LIST l ) { synchronized( sync ) { return list.addAll( l ); } }

    public KEY_GENERIC_CLASS get( final long i ) { synchronized( sync ) { return list.get( i ); } }
    public void add( final long i, KEY_GENERIC_CLASS k ) { synchronized( sync ) { list.add( i, k ); } }
    public KEY_GENERIC_CLASS set( final long index, KEY_GENERIC_CLASS k ) { synchronized( sync ) { return
list.set( index, k ); } }
    public KEY_GENERIC_CLASS remove( final long i ) { synchronized( sync ) { return list.remove( i ); } }
    public long indexOf( final Object o ) { synchronized( sync ) { return list.indexOf( o
); } }
    public long lastIndexOf( final Object o ) { synchronized( sync ) { return list.lastIndexOf( o ); } }
#endif
}

/** Returns a synchronized type-specific big list backed by the given type-specific big list.
 *
 * @param l the big list to be wrapped in a synchronized big list.
 * @return a synchronized view of the specified big list.
 * @see java.util.Collections#synchronizedList(List)
 */
public static KEY_GENERIC BIG_LIST KEY_GENERIC synchronize( final BIG_LIST KEY_GENERIC l ) {
return new SynchronizedBigList KEY_GENERIC( l ); }

```

```

/** Returns a synchronized type-specific big list backed by the given type-specific big list, using an assigned object
to synchronize.
*
* @param l the big list to be wrapped in a synchronized big list.
* @param sync an object that will be used to synchronize the access to the big list.
* @return a synchronized view of the specified big list.
* @see java.util.Collections#synchronizedList(List)
*/

public static KEY_GENERIC BIG_LIST
KEY_GENERIC synchronize( final BIG_LIST KEY_GENERIC l, final Object sync ) { return new
SynchronizedBigList KEY_GENERIC( l, sync ); }

/** An unmodifiable wrapper class for big lists. */

public static class UnmodifiableBigList KEY_GENERIC extends COLLECTIONS.UnmodifiableCollection
KEY_GENERIC implements BIG_LIST KEY_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final BIG_LIST KEY_GENERIC list; // Due to the large number of methods that are not in
COLLECTION, this is worth caching.

    protected UnmodifiableBigList( final BIG_LIST KEY_GENERIC l ) {
        super( l );
        this.list = l;
    }

    public KEY_GENERIC_TYPE GET_KEY( final long i ) { return list.GET_KEY( i ); }
    public KEY_GENERIC_TYPE set( final long i, final KEY_GENERIC_TYPE k ) { throw new
UnsupportedOperationException(); }
    public void add( final long i, final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
    public KEY_GENERIC_TYPE
REMOVE_KEY( final long i ) { throw new UnsupportedOperationException(); }

    public long indexOf( final KEY_TYPE k ) { return list.indexOf( k ); }
    public long lastIndexOf( final KEY_TYPE k ) { return list.lastIndexOf( k ); }

    public boolean addAll( final long index, final Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }

    public void getElements( final long from, final KEY_TYPE a[], final long offset, final long length ) {
list.getElements( from, a, offset, length ); }
    public void removeElements( final long from, final long to ) { throw new UnsupportedOperationException(); }
    public void addElements( long index, final KEY_GENERIC_TYPE a[], long offset, long length ) { throw new
UnsupportedOperationException(); }

```

```

public void addElements( long index, final KEY_GENERIC_TYPE a[] ) { throw new
UnsupportedOperationException(); }
public void size( final long size ) { list.size( size ); }
public long size64() { return list.size64();
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return
BIG_LIST_ITERATORS.unmodifiable( list.listIterator() ); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final long i ) { return
BIG_LIST_ITERATORS.unmodifiable( list.listIterator( i ) ); }

public BIG_LIST KEY_GENERIC subList( final long from, final long to ) { return unmodifiable( list.subList( from,
to ) ); }

public boolean equals( final Object o ) { return list.equals( o ); }
public int hashCode() { return list.hashCode(); }

#if ! #keyclass(Reference)
public int compareTo( final BigList<? extends KEY_GENERIC_CLASS> o ) { return list.compareTo( o ); }
#endif

#if #keys(primitive)
public boolean addAll( final long index, final COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean addAll( final BIG_LIST l ) { throw new UnsupportedOperationException(); }
public boolean addAll( final long
index, final BIG_LIST l ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS get( final long i ) { return list.get( i ); }
public void add( final long i, KEY_GENERIC_CLASS k ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS set( final long index, KEY_GENERIC_CLASS k ) { throw new
UnsupportedOperationException(); }
public KEY_GENERIC_CLASS remove( final long i ) { throw new UnsupportedOperationException(); }
public long indexOf( final Object o ) { return list.indexOf( o ); }
public long lastIndexOf( final Object o ) { return list.lastIndexOf( o ); }
#endif
}

/** Returns an unmodifiable type-specific big list backed by the given type-specific big list.
*
* @param l the big list to be wrapped in an unmodifiable big list.
* @return an unmodifiable view of the specified big list.
* @see java.util.Collections#unmodifiableList(List)
*/
public static KEY_GENERIC BIG_LIST KEY_GENERIC unmodifiable( final BIG_LIST KEY_GENERIC
l ) { return new UnmodifiableBigList KEY_GENERIC( l ); }

/** A class exposing a list as a big list. */

```

```

public static class ListBigList KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC implements
java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    private final LIST KEY_GENERIC list;

    protected ListBigList( final LIST KEY_GENERIC list ) {
        this.list = list;
    }

    private int intIndex( long index ) {
        if ( index >= Integer.MAX_VALUE ) throw new IndexOutOfBoundsException( "This big list is restricted to 32-bit
indices" );
        return (int)index;
    }

    public long size64() { return list.size(); }
    @Deprecated
    public int size() { return list.size(); }
    public void size( final long size ) { list.size( intIndex( size ) ); }
    public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return
BIG_LIST_ITERATORS.asBigListIterator( list.iterator() ); }
    public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return
BIG_LIST_ITERATORS.asBigListIterator(
list.listIterator() ); }
    public boolean addAll( final long index, final Collection<? extends KEY_GENERIC_CLASS> c ) { return
list.addAll( intIndex( index ), c ); }
    public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final long index ) { return
BIG_LIST_ITERATORS.asBigListIterator( list.listIterator( intIndex( index ) ) ); }
    public BIG_LIST KEY_GENERIC subList( long from, long to ) { return new ListBigList KEY_GENERIC(
list.subList( intIndex( from ), intIndex( to ) ) ); }
    public boolean contains( final KEY_TYPE key ) { return list.contains( key ); }
    public KEY_TYPE[] TO_KEY_ARRAY() { return list.TO_KEY_ARRAY(); }
    public void removeElements( final long from, final long to ) { list.removeElements( intIndex( from ), intIndex( to )
); }
    #if #keys(primitive)
    public KEY_TYPE[] TO_KEY_ARRAY( KEY_TYPE[] a ) { return list.TO_KEY_ARRAY( a ); }
    #endif
    public void add( long index, KEY_GENERIC_TYPE key ) { list.add( intIndex( index ), key ); }
    #if #keys(primitive)
    @Override
    #endif
    public
    boolean addAll( long index, COLLECTION KEY_GENERIC c ) { return list.addAll( intIndex( index ), c ); }
    #if #keys(primitive)
    @Override

```

```

#endif

public boolean addAll( long index, BIG_LIST KEY_GENERIC c ) { return list.addAll( intIndex( index ), c ); }
public boolean add( KEY_GENERIC_TYPE key ) { return list.add( key ); }
public boolean addAll( BIG_LIST KEY_GENERIC c ) { return list.addAll( c ); }
public KEY_GENERIC_TYPE GET_KEY( long index ) { return list.GET_KEY( intIndex( index ) ); }
public long indexOf( KEY_TYPE k ) { return list.indexOf( k ); }
public long lastIndexOf( KEY_TYPE k ) { return list.lastIndexOf( k ); }
public KEY_GENERIC_TYPE REMOVE_KEY( long index ) { return list.REMOVE_KEY( intIndex( index ) ); }
public KEY_GENERIC_TYPE set( long index, KEY_GENERIC_TYPE k ) { return list.set( intIndex( index ), k ); }
public boolean addAll( COLLECTION KEY_GENERIC c ) { return list.addAll( c ); }
public boolean containsAll( COLLECTION
KEY_GENERIC c ) { return list.containsAll( c ); }
public boolean removeAll( COLLECTION KEY_GENERIC c ) { return list.removeAll( c ); }
public boolean retainAll( COLLECTION KEY_GENERIC c ) { return list.retainAll( c ); }
public boolean isEmpty() { return list.isEmpty(); }
public <T> T[] toArray( T[] a ) { return list.toArray( a ); }
public boolean containsAll( Collection<?> c ) { return list.containsAll( c ); }
public boolean addAll( Collection<? extends KEY_GENERIC_CLASS> c ) { return list.addAll( c ); }
public boolean removeAll( Collection<?> c ) { return list.removeAll( c ); }
public boolean retainAll( Collection<?> c ) { return list.retainAll( c ); }
public void clear() { list.clear(); }
public int hashCode() { return list.hashCode(); }
}

/** Returns a big list backed by the specified list.
 *
 * @param list a list.
 * @return a big list backed by the specified list.
 */
public static KEY_GENERIC BIG_LIST KEY_GENERIC asBigList( final LIST KEY_GENERIC list )
{ return new ListBigList KEY_GENERIC( list ); }

#endif TEST

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString( r.nextInt() );
#else
return new java.io.Serializable() {};
#endif
}

```

```

private static void testLists( KEY_TYPE k, BIG_LIST m, BIG_LIST t, int level ) {
    int n = 100;
    int c;

    long ms;
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsIndex, tThrowsIndex,
    mThrowsUnsupp, tThrowsUnsupp;
    boolean rt = false, rm = false;
    Object Rt = null, Rm = null;

    if ( level == 0 ) return;

    /* Now we check that m and t are equal. */
    if ( !m.equals( t ) || ! t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

    ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
    ensure( t.equals( m ), "Error (" + level + ",
    " + seed + "): ! t.equals( m ) at start" );

    /* Now we check that m actually holds that data. */
    for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
        ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
    }

    /* Now we check that m actually holds that data, but iterating on m. */
    for(java.util.Iterator i=m.listIterator(); i.hasNext(); ) {
        ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)" );
    }

    /* Now we check that inquiries about random data give the same answer in m and t. For
    m we use the polymorphic method. */

    for(int i=0; i<n; i++) {
        KEY_TYPE T = genKey();

        mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
        mThrowsUnsupp = tThrowsUnsupp = false;

        try {
            m.contains(T);
        }
        catch ( java.util.NoSuchElementException e ) { mThrowsNoElement
= true; }
        catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    }
}

```

```

catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }

try {
    t.contains(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex +
", " + tThrowsIndex + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure( m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic
method) " + m );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        m.contains(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        t.contains(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException
e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in

```

```

java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): contains() divergence in
UnsupportedOperationException
for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t
and m (standard method) " + m );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        rm = m.add(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.add(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException
e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() divergence in
UnsupportedOperationException
for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,

```

```

>Error (" + level + ", " + seed + "): divergence in add() between t and m " + m );

    T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        rm = m.remove(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.remove(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch
( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    if ( ! KEY_EQUALS( T, k ) && mThrowsUnsupp && ! tThrowsUnsupp ) mThrowsUnsupp = true; // Stupid bug in
Collections.singleton()

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp
+ ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
>Error (" + level + ", " + seed + "): divergence in remove() between t and m " + m );
    }

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal " + m );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal " + m );

    /* Now we add and remove random data in m and t at specific positions, checking that the result is the same. */

    for(int i=0; i<20*n; i++) {
        KEY_TYPE T = genKey();

```

```
mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
int pos = r.nextInt( 2 );
```

```
try {
    m.add(pos, KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex
= true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }
```

```
try {
    t.add(pos, KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }
```

```
ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m );
```

```
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
```

```
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
IndexOutOfBoundsException for
" + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
```

```
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
```

```
T = genKey();
```

```
mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
pos = r.nextInt( 2 );
```

```
try {
    Rm = m.remove(pos);
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }
```

```

try {
    Rt = t.remove(pos);
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException
e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if
( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( Rm == Rt || Rm
!= null && Rm.equals(Rt), "Error (" + level + ", " + seed + "): divergence in remove() at " + pos + " between t and
m " + m );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal " + m );

/* Now we add and remove random collections in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException
e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
    }

```

```

catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() divergence in
IndexOutOfBoundsException
for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() between t and m " + m );

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try
{
rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): removeAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): removeAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp

```

```

== tThrowsUnsupp, "Error (" + level + ", " + seed + "): removeAll() divergence in UnsupportedOperationException
for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in removeAll() between t and m " + m );
    }

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after set removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after set removal " + m );

/* Now we add random collections at specific positions in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    int pos = r.nextInt( 2 );

    try {
        rm = m.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
    }
    catch
( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() at
" + pos + " divergence in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") "
+ m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() at " + pos + " between t and m " + m );

```

```

}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after set removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after set removal " + m );

/* Now we check that m actually
holds the same data. */

for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.listIterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

if ( m instanceof Singleton ) {
    ensure( m.equals( ((Singleton)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal m.clone()" );
    ensure( ((Singleton)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m" );
}

int h = m.hashCode();

/* Now we save and read m. */

BIG_LIST m2 = null;

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream
oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();

    java.io.InputStream is = new java.io.FileInputStream(ff);
    java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m2 = (BIG_LIST)ois.readObject();
    ois.close();
    ff.delete();
}

```

```

catch(Exception e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if ! #keyclass(Reference)

ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
#endif

if ( ! m.isEmpty() ) {
    long start = (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % m.size64();
    long end = start + (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % ( m.size64() - start );
    //System.err.println("Checking
subList from " + start + " to " + end + " (level=" + (level+1) + ")...");
    testLists( k, m.subList( start, end ), t.subList( start, end ), level - 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after subList" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subList" );

}

return;
}

private static void test() {
    KEY_TYPE k = genKey();
    BIG_LIST m = new Singleton( k );
    BIG_LIST u = BIG_LISTS.unmodifiable( BIG_LISTS.asBigList( LIST_SINGLETON( KEY2OBJ( k ) ) ) );
    testLists( k, m, u, 3 );
    System.out.println("Test OK");
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer
s = new StringBuffer();
return format.format( d, s, fp ).toString();
}

```

```

}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

/** This method expects as first argument a lower-cased type (e.g., "int"),
 * and as second optional argument a seed. */

public static void main( String arg[] ) throws Exception {
    if ( arg.length > 1 ) r = new java.util.Random( seed = Long.parseLong( arg[ 1 ] ) );

    try {
        test();
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigLists.drv

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```

*/

package PACKAGE;

import it.unimi.dsi.fastutil.BigArrays;
import it.unimi.dsi.fastutil.Hash;
import it.unimi.dsi.fastutil.Size64;
import it.unimi.dsi.fastutil.HashCommon;
import static it.unimi.dsi.fastutil.HashCommon.bigArraySize;
import static it.unimi.dsi.fastutil.HashCommon.maxFill;

import java.util.Collection;
import
java.util.Iterator;
import java.util.NoSuchElementException;

/** A type-specific hash big set with with a fast, small-footprint implementation.
 *
 * <P>Instances of this class use a hash table to represent a big set: the number
 * of elements in the set is limited only by the amount of core memory. The table
 * (backed by a { @linkplain it.unimi.dsi.fastutil.BigArrays big array}) is
 * filled up to a specified <em>load factor</em>, and then doubled in size to
 * accommodate new entries. If the table is emptied below <em>one fourth</em>
 * of the load factor, it is halved in size. However, halving is
 * not performed when deleting entries from an iterator, as it would interfere
 * with the iteration process.
 *
 * <p>Note that { @link #clear()} does not modify the hash table size.
 * Rather, a family of { @linkplain #trim() trimming
 * methods} lets you control the size of the table; this is particularly useful
 * if you reuse instances of this class.
 *
 * <p>The methods of
 * this class are about 30% slower than those of the corresponding non-big set.
 *
 * @see Hash
 * @see HashCommon
 */

public class OPEN_HASH_BIG_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, Hash, Size64 {

    private static final long serialVersionUID = 0L;
    private static final boolean ASSERTS = ASSERTS_VALUE;

    /** The big array of keys. */

```

```

protected transient KEY_GENERIC_TYPE[][] key;

/** The mask for wrapping a position counter. */
protected transient long mask;

/** The mask for wrapping a segment counter. */
protected transient int segmentMask;

/** The mask for wrapping a base counter. */
protected transient int baseMask;

/** Whether this set contains the null key. */
protected transient boolean containsNull;

/** The current table size (always a power of 2). */
protected transient long n;

/** Threshold after which we rehash. It must be the table size times {@link #f}. */
protected transient long maxFill;

/**
The acceptable load factor. */
protected final float f;

/** Number of entries in the set. */
protected long size;

/** Initialises the mask values. */
private void initMasks() {
    mask = n - 1;
    /* Note that either we have more than one segment, and in this case all segments
    * are BigArrays.SEGMENT_SIZE long, or we have exactly one segment whose length
    * is a power of two. */
    segmentMask = key[ 0 ].length - 1;
    baseMask = key.length - 1;
}

/** Creates a new hash big set.
*
* <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.</p>
*
* @param expected the expected number of elements in the set.
* @param f the load factor.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_BIG_SET( final long expected, final float f ) {
    if ( f <= 0 || f > 1 ) throw new IllegalArgumentException( "Load factor must be greater than 0 and smaller than or

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equal to 1" );
if ( n < 0 ) throw new IllegalArgumentException(
"The expected number of elements must be nonnegative" );

this.f = f;

n = bigArraySize( expected, f );
maxFill = maxFill( n, f );
key = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray( n );
initMasks();
}

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 *
 * @param expected the expected number of elements in the hash big set.
 */

public OPEN_HASH_BIG_SET( final long expected ) {
this( expected, DEFAULT_LOAD_FACTOR );
}

/** Creates a new hash big set with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } elements
 * and { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 */

public OPEN_HASH_BIG_SET() {
this( DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR );
}

/** Creates a new hash big set copying a given collection.
 *
 * @param c a { @link Collection } to be copied into the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET( final Collection<? extends KEY_GENERIC_CLASS> c, final
float f ) {
this( c.size(), f );
addAll( c );
}

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying a given collection.
 *
 * @param c a { @link Collection } to be copied into the new hash big set.
 */

```

```

public OPEN_HASH_BIG_SET( final Collection<? extends KEY_GENERIC_CLASS> c ) {
    this( c, DEFAULT_LOAD_FACTOR );
}

/** Creates a new hash big set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET( final COLLECTION KEY_EXTENDS_GENERIC c, final float f ) {
    this( c.size(), f );
    addAll( c );
}

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash big set.
 */

public OPEN_HASH_BIG_SET( final COLLECTION KEY_EXTENDS_GENERIC c )
{
    this( c, DEFAULT_LOAD_FACTOR );
}

/** Creates a new hash big set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final float f ) {
    this( DEFAULT_INITIAL_SIZE, f );
    while( i.hasNext() ) add( i.NEXT_KEY() );
}

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using elements
provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the new hash big set.
 */

public OPEN_HASH_BIG_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i ) {
    this( i, DEFAULT_LOAD_FACTOR );
}

```

```

#if #keys(primitive)

/** Creates a new hash big set using elements provided by an iterator.
 *
 * @param i an iterator whose elements will fill the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET(
final Iterator<?> i, final float f ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ), f );
}
/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using elements
provided by an iterator.
 *
 * @param i an iterator whose elements will fill the new hash big set.
 */

public OPEN_HASH_BIG_SET( final Iterator<?> i ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ) );
}

#endif

/** Creates a new hash big set and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the new hash big set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length, final float f ) {
    this( length < 0 ? 0 : length, f );
    ARRAYS.ensureOffsetLength( a, offset, length );
    for( int i = 0; i < length; i++ ) add( a[ offset + i ] );
}

/** Creates a new hash big set
with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the new hash big set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 */

public OPEN_HASH_BIG_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length ) {

```

```

this( a, offset, length, DEFAULT_LOAD_FACTOR );
}

/** Creates a new hash big set copying the elements of an array.
 *
 * @param a an array to be copied into the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET( final KEY_GENERIC_TYPE[] a, final float f ) {
    this( a, 0, a.length, f );
}

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying the elements of an array.
 *
 * @param a an array to be copied into the new hash big set.
 */

public OPEN_HASH_BIG_SET( final KEY_GENERIC_TYPE[] a ) {
    this( a, DEFAULT_LOAD_FACTOR
);
}

private long realSize() {
    return containsNull ? size - 1 : size;
}

private void ensureCapacity( final long capacity ) {
    final long needed = bigArraySize( capacity, f );
    if ( needed > n ) rehash( needed );
}

#if #keys(primitive)
/** { @inheritDoc } */
public boolean addAll( COLLECTION c ) {
    final long size = c instanceof Size64 ? ((Size64)c).size64() : c.size();
    if ( f <= .5 ) ensureCapacity( size ); // The resulting collection will be size for c.size() elements
    else ensureCapacity( size64() + size ); // The resulting collection will be sized for size() + c.size() elements
    return super.addAll( c );
}
#endif

/** { @inheritDoc } */
public boolean addAll( Collection<? extends KEY_GENERIC_CLASS> c ) {
    final long size = c instanceof Size64 ? ((Size64)c).size64() : c.size();
    // The resulting collection will be at least c.size() big
    if ( f <= .5 ) ensureCapacity( size ); // The resulting collection will be sized for c.size() elements

```

```

else ensureCapacity(
size64() + size ); // The resulting collection will be sized for size() + c.size() elements
return super.addAll( c );
}

public boolean add( final KEY_GENERIC_TYPE k ) {
int displ, base;

if ( KEY_IS_NULL( k ) ) {
if ( containsNull ) return false;
containsNull = true;
}
else {
KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[][] key = this.key;
final long h = KEY2LONGHASH( k );

// The starting point.
if ( ! KEY_IS_NULL( curr = key[ base = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ displ = (int)( h
& segmentMask ) ] ) ) {
if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return false;
while( ! KEY_IS_NULL( curr = key[ base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) ) &
baseMask ][ displ ] ) )
if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return false;
}

key[ base ][ displ ] = k;
}

if ( size++ >= maxFill ) rehash( 2 * n );
if ( ASSERTS ) checkTable();
return true;
}

#if #keyclass(Object)
/** Add a random element
if not present, get the existing value if already present.
*
* This is equivalent to (but faster than) doing a:
* <pre>
* K exist = set.get(k);
* if (exist == null) {
*   set.add(k);
*   exist = k;
* }
* </pre>
*/

```

```

public KEY_GENERIC_TYPE addOrGet( final KEY_GENERIC_TYPE k ) {
    int displ, base;

    if ( KEY_IS_NULL( k ) ) {
        if ( containsNull ) return null;
        containsNull = true;
    }
    else {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[][] key = this.key;
        final long h = KEY2LONGHASH( k );

        // The starting point.
        if ( ! KEY_IS_NULL( curr = key[ base = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ displ = (int)( h
        & segmentMask ) ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return curr;
            while( ! KEY_IS_NULL( curr = key[ base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) ) &
            baseMask ][ displ ] ) )
                if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return curr;
        }

        key[ base ][ displ ] = k;
    }

    if ( size++ >=
    maxFill ) rehash( 2 * n );
    if ( ASSERTS ) checkTable();
    return k;
}
#endif

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
protected final void shiftKeys( long pos ) {
    // Shift entries with the same hash.
    long last, slot;
    final KEY_GENERIC_TYPE[][] key = this.key;

    for(;;) {
        pos = ( ( last = pos ) + 1 ) & mask;

        for(;;) {
            if ( KEY_IS_NULL( BIG_ARRAYS.get( key, pos ) ) ) {
                BIG_ARRAYS.set( key, last, KEY_NULL );
                return;
            }
        }
    }
}

```

```

    }
    slot = KEY2LONGHASH( BIG_ARRAYS.get( key, pos ) ) & mask;
    if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
    pos = ( pos + 1 ) & mask;
    }

    BIG_ARRAYS.set( key, last, BIG_ARRAYS.get( key, pos ) );
    }
    }

private boolean removeEntry( final int base, final int displ ) {
    shiftKeys( base * (long)BigArrays.SEGMENT_SIZE + displ );
    if ( --size < maxFill
/ 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
    return true;
    }

private boolean removeNullEntry() {
    containsNull = false;
    if ( --size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
    return true;
    }

public boolean remove( final KEY_TYPE k ) {
    if ( KEY_IS_NULL( k ) ) {
        if ( containsNull ) return removeNullEntry();
        return false;
    }

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[][] key = this.key;
    final long h = KEY2LONGHASH( k );
    int displ, base;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ base = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ displ = (int)( h &
segmentMask ) ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return removeEntry( base, displ );
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) ) &
baseMask ][ displ ] ) ) return false;
        if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return removeEntry( base, displ );
    }
    }

public
boolean contains( final KEY_TYPE k ) {
    if ( KEY_IS_NULL( k ) ) return containsNull;

```

```

KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[][] key = this.key;
final long h = KEY2LONGHASH( k );
int displ, base;

// The starting point.
if ( KEY_IS_NULL( curr = key[ base = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ displ = (int)( h &
segmentMask ) ] ) ) return false;
if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return true;
while( true ) {
    if ( KEY_IS_NULL( curr = key[ base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) ) &
baseMask ][ displ ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return true;
}
}

#if #keyclass(Object)
/** Returns the element of this set that is equal to the given key, or <code>null</code>.
 * @return the element of this set that is equal to the given key, or <code>null</code>.
 */
public K get( final KEY_TYPE k ) {
    if ( k == null ) return null; // This is correct independently of the value of containsNull

    KEY_GENERIC_TYPE
    curr;
    final KEY_GENERIC_TYPE[][] key = this.key;
    final long h = KEY2LONGHASH( k );
    int displ, base;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ base = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ displ = (int)( h &
segmentMask ) ] ) ) return null;
    if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return curr;
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) ) &
baseMask ][ displ ] ) ) return null;
        if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return curr;
    }
}
#endif

/** Removes all elements from this set.
 *
 * <P>To increase object reuse, this method does not change the table size.
 * If you want to reduce the table size, you must use { @link #trim(long) }.
 *
 */

```

```

public void clear() {
    if ( size == 0 ) return;
    size = 0;
    containsNull = false;
    BIG_ARRAYS.fill( key, KEY_NULL );
}

/** An iterator over a hash big set. */

private class SetIterator extends
KEY_ABSTRACT_ITERATOR KEY_GENERIC {
    /** The base of the last entry returned, if positive or zero; initially, the number of components
    of the key array. If negative, the last element returned was
    that of index { @code - base - 1 } from the { @link #wrapped } list. */
    int base = key.length;
    /** The displacement of the last entry returned; initially, zero. */
    int displ;
    /** The index of the last entry that has been returned (or { @link Long#MIN_VALUE } if { @link #base } is
    negative).
    It is -1 if either we did not return an entry yet, or the last returned entry has been removed. */
    long last = -1;
    /** A downward counter measuring how many entries must still be returned. */
    long c = size;
    /** A boolean telling us whether we should return the null key. */
    boolean mustReturnNull = OPEN_HASH_BIG_SET.this.containsNull;
    /** A lazily allocated list containing elements that have wrapped around the table because of removals. */
    ARRAY_LIST KEY_GENERIC wrapped;

    public boolean
    hasNext() {
        return c != 0;
    }

    public KEY_GENERIC_TYPE NEXT_KEY() {
        if ( ! hasNext() ) throw new NoSuchElementException();
        c--;

        if ( mustReturnNull ) {
            mustReturnNull = false;
            last = n;
            return KEY_NULL;
        }

        final KEY_GENERIC_TYPE[][] key = OPEN_HASH_BIG_SET.this.key;

```

```

for(;;) {
    if ( displ == 0 && base <= 0 ) {
        // We are just enumerating elements from the wrapped list.
        last = Long.MIN_VALUE;
        return wrapped.GET_KEY( - ( --base ) - 1 );
    }

    if ( displ-- == 0 ) displ = key[ --base ].length - 1;

    final KEY_GENERIC_TYPE k = key[ base ][ displ ];
    if ( ! KEY_IS_NULL( k ) ) {
        last = base * (long)BigArrays.SEGMENT_SIZE + displ;
        return k;
    }
}

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
private final void shiftKeys( long pos ) {
    // Shift entries with
the same hash.
    long last, slot;
    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[][] key = OPEN_HASH_BIG_SET.this.key;

    for(;;) {
        pos = ( ( last = pos ) + 1 ) & mask;

        for(;;) {
            if( KEY_IS_NULL( curr = BIG_ARRAYS.get( key, pos ) ) ) {
                BIG_ARRAYS.set( key, last, KEY_NULL );
                return;
            }
            slot = KEY2LONGHASH( curr ) & mask;
            if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
            pos = ( pos + 1 ) & mask;
        }

        if ( pos < last ) { // Wrapped entry.
            if ( wrapped == null ) wrapped = new ARRAY_LIST KEY_GENERIC();
            wrapped.add( BIG_ARRAYS.get( key, pos ) );
        }

        BIG_ARRAYS.set( key, last, curr );

```

```

    }
}

public void remove() {
    if ( last == -1 ) throw new IllegalStateException();
    if ( last == n ) OPEN_HASH_BIG_SET.this.containsNull = false;
    else if ( base >= 0 ) shiftKeys( last );
    else {
        // We're removing wrapped entries.
#ifdef keys(reference)
        OPEN_HASH_BIG_SET.this.remove(
            wrapped.set( - base - 1, null ) );
#else
        OPEN_HASH_BIG_SET.this.remove( wrapped.GET_KEY( - base - 1 ) );
#endif
        last = -1; // Note that we must not decrement size
        return;
    }

    size--;
    last = -1; // You can no longer remove this entry.
    if ( ASSERTS ) checkTable();
}

public KEY_ITERATOR KEY_GENERIC iterator() {
    return new SetIterator();
}

/** A no-op for backward compatibility. The kind of tables implemented by
 * this class never need rehashing.
 *
 * <P>If you need to reduce the table size to fit exactly
 * this set, use { @link #trim() }.
 *
 * @return true.
 * @see #trim()
 * @deprecated A no-op.
 */

@Deprecated
public boolean rehash() {
    return true;
}

/** Rehashes this set, making the table as small as possible.
 *

```

```

* <P>This method rehashes the table to the smallest size satisfying the
* load factor. It can be used when the set will not be changed anymore, so
* to optimize access speed and size.
*
* <P>If the table size
is already the minimum possible, this method
* does nothing.
*
* @return true if there was enough memory to trim the set.
* @see #trim(long)
*/

public boolean trim() {
    final long l = bigArraySize( size, f );
    if ( l >= n || size > maxFill( l, f ) ) return true;
    try {
        rehash( l );
    }
    catch(OutOfMemoryError cantDoIt) { return false; }
    return true;
}

/** Rehashes this set if the table is too large.
*
* <P>Let <var>N</var> be the smallest table size that can hold
* <code>max(n,{@link #size64()})</code> entries, still satisfying the load factor. If the current
* table size is smaller than or equal to <var>N</var>, this method does
* nothing. Otherwise, it rehashes this set in a table of size
* <var>N</var>.
*
* <P>This method is useful when reusing sets. { @linkplain #clear() Clearing a
* set} leaves the table size untouched. If you are reusing a set
* many times, you can call this method with a typical
* size to avoid keeping around a
very large table just
* because of a few large transient sets.
*
* @param n the threshold for the trimming.
* @return true if there was enough memory to trim the set.
* @see #trim()
*/

public boolean trim( final long n ) {
    final long l = bigArraySize( n, f );
    if ( this.n <= l ) return true;
    try {
        rehash( l );
    }
}

```

```

catch( OutOfMemoryError cantDoIt ) { return false; }
return true;
}

/** Resizes the set.
 *
 * <P>This method implements the basic rehashing strategy, and may be
 * overridden by subclasses implementing different rehashing strategies (e.g.,
 * disk-based rehashing). However, you should not override this method
 * unless you understand the internal workings of this class.
 *
 * @param newN the new size
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
protected void rehash( final long newN ) {
    final KEY_GENERIC_TYPE key[][] = this.key;
    final KEY_GENERIC_TYPE newKey[][] = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray(
newN );
    final long mask =
newN - 1; // Note that this is used by the hashing macro
    final int newSegmentMask = newKey[ 0 ].length - 1;
    final int newBaseMask = newKey.length - 1;

    int base = 0, displ = 0, b, d;
    long h;
    KEY_GENERIC_TYPE k;

    for( long i = realSize(); i-- != 0; ) {

        while( KEY_IS_NULL( key[ base ][ displ ] ) ) base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0
) );

        k = key[ base ][ displ ];
        h = KEY2LONGHASH( k );

        // The starting point.
        if ( ! KEY_IS_NULL( newKey[ b = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ d = (int)( h &
newSegmentMask ) ] ) )
            while( ! KEY_IS_NULL( newKey[ b = ( b + ( ( d = ( d + 1 ) & newSegmentMask ) == 0 ? 1 : 0 ) ) & newBaseMask
][ d ] ) );

        newKey[ b ][ d ] = k;

        base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) );
    }

    this.n = newN;

```

```

this.key = newKey;
initMasks();
maxFill = maxFill( n, f );
}

```

```

@Deprecated
public int size() {
    return (int)Math.min( Integer.MAX_VALUE, size
);
}

```

```

public long size64() {
    return size;
}

```

```

public boolean isEmpty() {
    return size == 0;
}

```

```

/** Returns a deep copy of this big set.
 *
 * <P>This method performs a deep copy of this big hash set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this big set.
 */

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_BIG_SET KEY_GENERIC clone() {
    OPEN_HASH_BIG_SET KEY_GENERIC c;
    try {
        c = (OPEN_HASH_BIG_SET KEY_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }
    c.key = BIG_ARRAYS.copy( key );
    c.containsNull = containsNull;
    return c;
}

```

```

/** Returns a hash code for this set.
 *
 * This method overrides the generic method provided by the superclass.
 * Since equals() is not overridden, it is important
 * that the value returned by this method is the same value as

```

```

* the one returned by the
overriden method.
*
* @return a hash code for this set.
*/

public int hashCode() {
    final KEY_GENERIC_TYPE key[][] = this.key;
    int h = 0, base = 0, displ = 0;

    for( long j = realSize(); j-- != 0; ) {
        while( KEY_IS_NULL( key[ base ][ displ ] ) ) base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0
        ) );
        #if #keys(reference)
            if ( this != key[ base ][ displ ] )
        #endif
            h += KEY2JAVAHASH_NOT_NULL( key[ base ][ displ ] );
            base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) );
        }
        return h;
    }

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    final KEY_ITERATOR KEY_GENERIC i = iterator();
    s.defaultWriteObject();
    for( long j = size; j-- != 0; ) s.WRITE_KEY( i.NEXT_KEY() );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();

    n = bigArraySize( size, f );
    maxFill =
    maxFill( n, f );

    final KEY_GENERIC_TYPE[][] key = this.key = KEY_GENERIC_BIG_ARRAY_CAST
    BIG_ARRAYS.newBigArray( n );

    initMasks();

    long h;
    KEY_GENERIC_TYPE k;
    int base, displ;

```

```

for( long i = size; i-- != 0; ) {
    k = KEY_GENERIC_CAST s.READ_KEY();

    if ( KEY_IS_NULL( k ) ) containsNull = true;
    else {
        h = KEY2LONGHASH( k );
        if ( ! KEY_IS_NULL( key[ base = (int)( ( h & mask ) >>> BigArrays.SEGMENT_SHIFT ) ][ displ = (int)( h &
segmentMask ) ] ) )
            while( ! KEY_IS_NULL( key[ base = ( base + ( ( displ = ( displ + 1 ) & segmentMask ) == 0 ? 1 : 0 ) ) & baseMask
][ displ ] ) );
        key[ base ][ displ ] = k;
    }
}

if ( ASSERTS ) checkTable();
}

```

```

#ifdef ASSERTS_CODE
private void checkTable() {
    assert ( n & -n ) == n : "Table length is not a power of two: " + n;
    assert n == BIG_ARRAYS.length( key );
    long n = this.n;
    while( n-- != 0 )
        if ( ! KEY_IS_NULL( BIG_ARRAYS.get( key, n ) ) && ! contains( BIG_ARRAYS.get( key, n ) ) )
            throw new
AssertionError( "Hash table has key " + BIG_ARRAYS.get( key, n ) + " marked as occupied, but the key does not
belong to the table" );
}

```

```

#if #keys(primitive)
    java.util.HashSet<KEY_GENERIC_CLASS> s = new java.util.HashSet<KEY_GENERIC_CLASS> ();
#else
    java.util.HashSet<Object> s = new java.util.HashSet<Object>();
#endif

```

```

for( long i = size(); i-- != 0; )
    if ( ! KEY_IS_NULL( BIG_ARRAYS.get( key, i ) ) && ! s.add( BIG_ARRAYS.get( key, i ) ) ) throw new
AssertionError( "Key " + BIG_ARRAYS.get( key, i ) + " appears twice" );

```

```

}
#else
private void checkTable() {}
#endif

```

```

#ifdef TEST

```

```

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

```

```

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #elif #keyclass(Object)
        return Integer.toBinaryString( r.nextInt() );
    #else
        return new java.io.Serializable()
        {};
    #endif
}

private static final class ArrayComparator implements java.util.Comparator {
    public int compare( Object a, Object b ) {
        byte[] aa = (byte[])a;
        byte[] bb = (byte[])b;
        int length = Math.min( aa.length, bb.length );
        for( int i = 0; i < length; i++ ) {
            if ( aa[ i ] < bb[ i ] ) return -1;
            if ( aa[ i ] > bb[ i ] ) return 1;
        }
        return aa.length == bb.length ? 0 : ( aa.length < bb.length ? -1 : 1 );
    }
}

private static final class MockSet extends java.util.TreeSet {
    private java.util.List list = new java.util.ArrayList();

    public MockSet( java.util.Comparator c ) { super( c ); }

    public boolean add( Object k ) {
        if ( ! contains( k ) ) list.add( k );
        return super.add( k );
    }

    public boolean addAll( Collection c ) {
        java.util.Iterator i = c.iterator();
        boolean result = false;
        while( i.hasNext() ) result |= add( i.next() );
        return result;
    }

    public boolean removeAll( Collection c ) {
        java.util.Iterator

```

```

i = c.iterator();
boolean result = false;
while( i.hasNext() ) result |= remove( i.next() );
return result;
}

public boolean remove( Object k ) {
if ( contains( k ) ) {
int i = list.size();
while( i-- != 0 ) if ( comparator().compare( list.get( i ), k ) == 0 ) {
list.remove( i );
break;
}
}
return super.remove( k );
}

private void justRemove( Object k ) { super.remove( k ); }

public java.util.Iterator iterator() {
return new java.util.Iterator() {
final java.util.Iterator iterator = list.iterator();
Object curr;
public Object next() { return curr = iterator.next(); }
public boolean hasNext() { return iterator.hasNext(); }
public void remove() {
justRemove( curr );
iterator.remove();
}
};
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String
format( double d ) {
StringBuffer s = new StringBuffer();
return format.format( d, s, fp ).toString();
}

private static void speedTest( int n, float f, boolean comp ) {
int i, j;
OPEN_HASH_BIG_SET m;
java.util.HashSet t;

KEY_TYPE k[] = new KEY_TYPE[n];

```

```

KEY_TYPE nk[] = new KEY_TYPE[n];
long ms;

for( i = 0; i < n; i++ ) {
    k[i] = genKey();
    nk[i] = genKey();
}

double totAdd = 0, totYes = 0, totNo = 0, totIter = 0, totRemYes = 0, totRemNo = 0, d;

if ( comp ) { for( j = 0; j < 20; j++ ) {

    t = new java.util.HashSet( 16 );

    /* We add pairs to t. */
    ms = System.currentTimeMillis();
    for( i = 0; i < n; i++ ) t.add( KEY2OBJ( k[i] ) );
    d = 1.0 * n / (System.currentTimeMillis() - ms);
    if ( j > 2 ) totAdd += d;
    System.out.print("Add: " + format( d ) + " K/s " );

    /* We check for pairs in t. */
    ms = System.currentTimeMillis();
    for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( k[i] ) );
    d = 1.0 * n / (System.currentTimeMillis()
- ms );
    if ( j > 2 ) totYes += d;
    System.out.print("Yes: " + format( d ) + " K/s " );

    /* We check for pairs not in t. */
    ms = System.currentTimeMillis();
    for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( nk[i] ) );
    d = 1.0 * n / (System.currentTimeMillis() - ms );
    if ( j > 2 ) totNo += d;
    System.out.print("No: " + format( d ) + " K/s " );

    /* We iterate on t. */
    ms = System.currentTimeMillis();
    for( java.util.Iterator it = t.iterator(); it.hasNext(); it.next() );
    d = 1.0 * n / (System.currentTimeMillis() - ms );
    if ( j > 2 ) totIter += d;
    System.out.print("Iter: " + format( d ) + " K/s " );

    /* We delete pairs not in t. */
    ms = System.currentTimeMillis();
    for( i = 0; i < n; i++ ) t.remove( KEY2OBJ( nk[i] ) );
    d = 1.0 * n / (System.currentTimeMillis() - ms );
    if ( j > 2 ) totRemNo += d;
}
}

```

```

System.out.print("RemNo: " + format( d ) + " K/s " );

/* We delete pairs in t. */
ms = System.currentTimeMillis();
for(
i = 0; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totRemYes += d;
System.out.print("RemYes: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "java.util Add: " + format( totAdd/(j-3) ) + " K/s Yes: " + format( totYes/(j-3) ) + " K/s No: " +
format( totNo/(j-3) ) + " K/s Iter: " + format( totIter/(j-3) ) + " K/s RemNo: " + format( totRemNo/(j-3) ) + " K/s
RemYes: " + format( totRemYes/(j-3) ) + "K/s" );

System.out.println();

totAdd = totYes = totNo = totIter = totRemYes = totRemNo = 0;
}

for( j = 0; j < 20; j++ ) {

m = new OPEN_HASH_BIG_SET( 16, f );

/* We add pairs to m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.add( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totAdd += d;
System.out.print("Add: " + format( d ) + " K/s " );

/* We check for pairs
in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.contains( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.contains( nk[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );
}

```

```

/* We iterate on m. */
ms = System.currentTimeMillis();
for( KEY_ITERATOR it = (KEY_ITERATOR)m.iterator(); it.hasNext(); it.NEXT_KEY() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIter += d;
System.out.print("Iter: " + format( d ) + " K/s " );

/* We delete pairs not in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.remove( nk[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totRemNo += d;
System.out.print("RemNo:
" + format( d ) + " K/s " );

/* We delete pairs in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.remove( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totRemYes += d;
System.out.print("RemYes: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "fastutil Add: " + format( totAdd/(j-3) ) + " K/s Yes: " + format( totYes/(j-3) ) + " K/s No: " +
format( totNo/(j-3) ) + " K/s Iter: " + format( totIter/(j-3) ) + " K/s RemNo: " + format( totRemNo/(j-3) ) + " K/s
RemYes: " + format( totRemYes/(j-3) ) + " K/s" );

System.out.println();
}

private static void fatal( String msg ) {
System.out.println( msg );
System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
if ( cond ) return;
fatal( msg );
}

private static void printProbes( OPEN_HASH_BIG_SET m ) {

```

```

long totProbes = 0;
double totSquareProbes = 0;
int
maxProbes = 0;
final double f = (double)m.size / m.n;
for( int i = 0, c = 0; i < m.n; i++ ) {
    if ( ! KEY_IS_NULL( BIG_ARRAYS.get( m.key, i ) ) ) c++;
    else {
        if ( c != 0 ) {
            final long p = ( c + 1 ) * ( c + 2 ) / 2;
            totProbes += p;
            totSquareProbes += (double)p * p;
        }
        maxProbes = Math.max( c, maxProbes );
        c = 0;
        totProbes++;
        totSquareProbes++;
    }
}

final double expected = (double)totProbes / m.n;
System.err.println( "Expected probes: " + (
    3 * Math.sqrt( 3 ) * ( f / ( ( 1 - f ) * ( 1 - f ) ) ) + 4 / ( 9 * f ) - 1
) + "; actual: " + expected + "; stddev: " + Math.sqrt( totSquareProbes / m.n - expected * expected ) + "; max
probes: " + maxProbes );
}
private static void test( int n, float f ) {
    int c;
    OPEN_HASH_BIG_SET m = new OPEN_HASH_BIG_SET(Hash.DEFAULT_INITIAL_SIZE, f);
    java.util.Set t = new java.util.HashSet();

    /* First of all, we fill t with random data. */

    for(int i=0; i<f * n; i++ ) t.add(KEY2OBJ(genKey()));

    /* Now we add to m the same data */

    m.addAll(t);

    if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after insertion");
    if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after insertion");
    printProbes( m );

    /* Now we check that m actually holds that data. */

    for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
        Object e = i.next();

```

```

if (!m.contains(e)) {
    System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on t)");
    System.exit( 1 );
}
}

/* Now we check that m actually holds that data, but iterating on m. */

c = 0;
for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
    Object e = i.next();
    c++;
    if (!t.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on m)");
        System.exit( 1 );
    }
}

if ( c != t.size() ) {
    System.out.println("Error
(" + seed + "): m has only " + c + " keys instead of " + t.size() + " after insertion (iterating on m)");
    System.exit( 1 );
}

/* Now we check that inquiries about random data give the same answer in m and t. For
   m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    if (m.contains(T) != t.contains(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in keys between t and m (polymorphic method)");
        System.exit( 1 );
    }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
   for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    if (m.contains(KEY2OBJ(T)) != t.contains(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence between t and m (standard method)");
        System.exit( 1 );
    }
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

```

```

for(int i=0; i<20*n; i++)
) {
    KEY_TYPE T = genKey();
    if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in add() between t and m");
        System.exit( 1 );
    }
    T = genKey();
    if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in remove() between t and m");
        System.exit( 1 );
    }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after removal");

/* Now we check that m actually holds that data. */

for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
    Object e = i.next();
    if (!m.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on t)");
        System.exit( 1 );
    }
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext();
) {
    Object e = i.next();
    if (!t.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on m)");
        System.exit( 1 );
    }
}

printProbes( m );

/* Now we make m into an array, make it again a set and check it is OK. */
KEY_TYPE a[] = m.TO_KEY_ARRAY();

if (!new OPEN_HASH_BIG_SET(a).equals(m))
    System.out.println("Error (" + seed + "): toArray() output (or array-based constructor) is not OK");

/* Now we check cloning. */

```

```

ensure( m.equals( ((OPEN_HASH_BIG_SET)m).clone() ), "Error (" + seed + "): m does not equal m.clone()" );
ensure( ((OPEN_HASH_BIG_SET)m).clone().equals( m ), "Error (" + seed + "): m.clone() does not equal m" );

int h = m.hashCode();

/* Now we save and read m. */

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();

    java.io.InputStream
is = new java.io.FileInputStream(ff);
    java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m = (OPEN_HASH_BIG_SET)ois.readObject();
    ois.close();
    ff.delete();
}
catch(Exception e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if !#keyclass(Reference)
if (m.hashCode() != h) System.out.println("Error (" + seed + "): hashCode() changed after save/read");

printProbes( m );

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
    Object e = i.next();
    if (!t.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after save/read");
        System.exit( 1 );
    }
}
#else
m.clear();
m.addAll( t );
#endif

/* Now we put and remove random data in m and t, checking that the result is the same. */

```

```

for(int i=0; i<20*n; i++) {
    KEY_TYPE
T = genKey();
if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
    System.out.println("Error (" + seed + "): divergence in add() between t and m after save/read");
    System.exit( 1 );
}
T = genKey();
if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
    System.out.println("Error (" + seed + "): divergence in remove() between t and m after save/read");
    System.exit( 1 );
}
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after post-save/read removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after post-save/read removal");

/* Now we take out of m everything, and check that it is empty. */

for(java.util.Iterator i=m.iterator(); i.hasNext(); ) { i.next(); i.remove();}

if (!m.isEmpty()) {
    System.out.println("Error (" + seed + "): m is not empty (as it should be)");
    System.exit( 1 );
}

#if #keyclass(Integer) || #keyclass(Long)
m = new OPEN_HASH_BIG_SET(n, f);
t.clear();
int x;

/*
Now we torture-test the hash table. This part is implemented only for integers and longs. */

int p = m.key.length - 1;

for(int i=0; i<p; i++) {
    for (int j=0; j<20; j++) {
        m.add(i+(r.nextInt() % 10)*p);
        m.remove(i+(r.nextInt() % 10)*p);
    }

    for (int j=-10; j<10; j++) m.remove(i+j*p);
}

t.addAll(m);

```

```
/* Now all table entries are REMOVED. */
```

```
int k = 0;
for(int i=0; i<(p*f)/10; i++) {
  for (int j=0; j<10; j++) {
    k++;
    x = i+(r.nextInt() % 10)*p;
    if (m.add(x) != t.add(KEY2OBJ(x)))
      System.out.println("Error (" + seed + "): m and t differ on a key during torture-test insertion.");
  }
}
```

```
if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test insertion");
```

```
for(int i=0; i<(p*f)/10; i++) {
  for (int j=0; j<10; j++) {
    x = i+(r.nextInt() % 10)*p;
    if (m.remove(x) != t.remove(KEY2OBJ(x)))
      System.out.println("Error
(" + seed + "): m and t differ on a key during torture-test removal.");
  }
}
```

```
if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test removal");
```

```
if (!m.equals(m.clone())) System.out.println("Error (" + seed + "): !m.equals(m.clone()) after torture-test removal");
if (!((OPEN_HASH_BIG_SET)m.clone()).equals(m)) System.out.println("Error (" + seed + "): !m.clone().equals(m)
after torture-test removal");
```

```
m.rehash();
```

```
if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after rehash()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after rehash()");
```

```
#endif
```

```
System.out.println("Test OK");
return;
}
```

```
public static void main( String args[] ) {
  float f = Hash.DEFAULT_LOAD_FACTOR;
  int n = Integer.parseInt(args[1]);
  if (args.length>2) f = Float.parseFloat(args[2]);
```

```

if
( args.length > 3 ) r = new java.util.Random( seed = Long.parseLong( args[ 3 ] ) );

try {
  if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, f, "speedComp".equals(args[0]) );
  else if ( "test".equals( args[0] ) ) test(n, f);
} catch( Throwable e ) {
  e.printStackTrace( System.err );
  System.err.println( "seed: " + seed );
}
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenHashBigSet.drv

No license file was found, but licenses were detected in source scan.

```

/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

```

```
package PACKAGE;
```

```

import it.unimi.dsi.fastutil.objects.AbstractObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;

```

```

import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
import
  VALUE_PACKAGE.VALUE_ITERATOR;

```

```

import java.util.Comparator;
import java.util.Iterator;
import java.util.Map;
import java.util.SortedMap;
import java.util.NoSuchElementException;

#if #values(primitive)
import VALUE_PACKAGE.VALUE_LIST_ITERATOR;
#endif

/** A type-specific AVL tree map with a fast, small-footprint implementation.
 *
 * <P>The iterators provided by the views of this class are type-specific { @linkplain
 * it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
 * Moreover, the iterator returned by <code>iterator()</code> can be safely cast
 * to a type-specific { @linkplain java.util.ListIterator list iterator}.
 */

public class AVL_TREE_MAP KEY_VALUE_GENERIC extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

    /** A reference to the root entry. */
    protected transient Entry KEY_VALUE_GENERIC tree;

    /** Number of entries in this map. */
    protected int count;

    /** The first key in this
    map. */
    protected transient Entry KEY_VALUE_GENERIC firstEntry;

    /** The last key in this map. */
    protected transient Entry KEY_VALUE_GENERIC lastEntry;

    /** Cached set of entries. */
    protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;

    /** Cached set of keys. */
    protected transient volatile SORTED_SET KEY_GENERIC keys;

    /** Cached collection of values. */
    protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

    /** The value of this variable remembers, after a <code>put()</code>
    * or a <code>remove()</code>, whether the <em>domain</em> of the map
    * has been modified. */
    protected transient boolean modified;

```

```

/** This map's comparator, as provided in the constructor. */
protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;

/** This map's actual comparator; it may differ from {@link #storedComparator} because it is
always a type-specific comparator, so it could be derived from the former by wrapping. */
protected
transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;

private static final long serialVersionUID = -7046029254386353129L;

private static final boolean ASSERTS = ASSERTS_VALUE;

{
    allocatePaths();
}

/** Creates a new empty tree map.
*/

public AVL_TREE_MAP() {
    tree = null;
    count = 0;
}

/** Generates the comparator that will be actually used.
*
* <P>When a specific {@link Comparator} is specified and stored in {@link
* #storedComparator}, we must check whether it is type-specific. If it is
* so, we can use it directly, and we store it in {@link #actualComparator}. Otherwise,
* we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
* and makes it into a type-specific one.
*/
private void setActualComparator() {
    #if #keyclass(Object)
        actualComparator = storedComparator;
    #else
        /* If the provided comparator is already type-specific, we use it. Otherwise,
        we use a wrapper anonymous class to fake that
        it is type-specific. */
        if ( storedComparator == null || storedComparator instanceof KEY_COMPARATOR ) actualComparator =
(KEY_COMPARATOR)storedComparator;
        else actualComparator = new KEY_COMPARATOR KEY_SUPER_GENERIC() {
            public int compare( KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2 ) {
                return storedComparator.compare( KEY2OBJ( k1 ), KEY2OBJ( k2 ) );
            }
            public int compare( KEY_GENERIC_CLASS ok1, KEY_GENERIC_CLASS ok2 ) {
                return storedComparator.compare( ok1, ok2 );
            }
        }
    #endif
}

```

```

    };
#endif
}

/** Creates a new empty tree map with the given comparator.
 *
 * @param c a (possibly type-specific) comparator.
 */

public AVL_TREE_MAP( final Comparator<? super KEY_GENERIC_CLASS> c ) {
    this();
    storedComparator = c;
    setActualComparator();
}

/** Creates a new tree map copying a given map.
 *
 * @param m a {@link Map} to be copied into the new tree map.
 */

public AVL_TREE_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m ) {
    this();
    putAll(
m );
}

/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
 *
 * @param m a {@link SortedMap} to be copied into the new tree map.
 */

public AVL_TREE_MAP( final SortedMap<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> m ) {
    this( m.comparator() );
    putAll( m );
}

/** Creates a new tree map copying a given map.
 *
 * @param m a type-specific map to be copied into the new tree map.
 */

public AVL_TREE_MAP( final MAP KEY_VALUE_EXTENDS_GENERIC m ) {
    this();
    putAll( m );
}

```

```

/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
 *
 * @param m a type-specific sorted map to be copied into the new tree map.
 */

public AVL_TREE_MAP( final SORTED_MAP KEY_VALUE_GENERIC m ) {
    this( m.comparator() );
    putAll( m );
}

/** Creates a new tree map using the elements of two parallel arrays and the given comparator.
 *
 * @param k the array of keys of the new tree map.
 * @param v the array
of corresponding values in the new tree map.
 * @param c a (possibly type-specific) comparator.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

public AVL_TREE_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[], final
Comparator<? super KEY_GENERIC_CLASS> c ) {
    this( c );
    if ( k.length != v.length ) throw new IllegalArgumentException( "The key array and the value array have different
lengths ( " + k.length + " and " + v.length + " )" );
    for( int i = 0; i < k.length; i++ ) this.put( k[ i ], v[ i ] );
}

/** Creates a new tree map using the elements of two parallel arrays.
 *
 * @param k the array of keys of the new tree map.
 * @param v the array of corresponding values in the new tree map.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

public AVL_TREE_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[] ) {
    this( k, v, null );
}

/**

 * The following methods implements some basic building blocks used by
 * all accessors. They are (and should be maintained) identical to those used in AVLTreeSet.drv.
 *
 * The put()/remove() code is derived from Ben Pfaff's GNU libavl
 * (http://www.msu.edu/~pffaffben/avl/). If you want to understand what's
 * going on, you should have a look at the literate code contained therein
 * first.

```

```

*/

/** Compares two keys in the right way.
 *
 * <P>This method uses the { @link #actualComparator } if it is non-null.
 * Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo()}.
 *
 * @param k1 the first key.
 * @param k2 the second key.
 * @return a number smaller than, equal to or greater than 0, as usual
 * (i.e., when  $k1 < k2$ ,  $k1 = k2$  or  $k1 > k2$ , respectively).
 */

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

final int compare( final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2 ) {
    return actualComparator
    == null ? KEY_CMP( k1, k2 ) : actualComparator.compare( k1, k2 );
}

```

```

/** Returns the entry corresponding to the given key, if it is in the tree; null, otherwise.
 *
 * @param k the key to search for.
 * @return the corresponding entry, or null if no entry with the given key exists.
 */

```

```

final Entry KEY_VALUE_GENERIC findKey( final KEY_GENERIC_TYPE k ) {
    Entry KEY_VALUE_GENERIC e = tree;
    int cmp;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 ) e = cmp < 0 ? e.left() : e.right();

    return e;
}

```

```

/** Locates a key.
 *
 * @param k a key.
 * @return the last entry on a search for the given key; this will be
 * the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
 */

```

```

final Entry KEY_VALUE_GENERIC locateKey( final KEY_GENERIC_TYPE k ) {
    Entry KEY_VALUE_GENERIC e = tree, last = tree;
    int cmp = 0;

```

```

while ( e != null && ( cmp = compare( k, e.key ) ) != 0 ) {
    last
= e;
    e = cmp < 0 ? e.left() : e.right();
}

return cmp == 0 ? e : last;
}

/** This vector remembers the directions followed during
 * the current insertion. It suffices for about 2<sup>32</sup> entries. */
private transient boolean dirPath[];

private void allocatePaths() {
    dirPath = new boolean[ 48 ];
}

#if #values(primitive) && !#valueclass(Boolean)
/** Adds an increment to value currently associated with a key.
 *
 * <P>Note that this method respects the { @linkplain #defaultReturnValue() default return value } semantics: when
 * called with a key that does not currently appears in the map, the key
 * will be associated with the default return value plus
 * the given increment.
 *
 * @param k the key.
 * @param incr the increment.
 * @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
 */
public VALUE_GENERIC_TYPE addTo( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE incr)
{
    Entry KEY_VALUE_GENERIC e = add( k );
    final VALUE_GENERIC_TYPE oldValue = e.value;
    e.value += incr;
    return oldValue;
}
#endif

public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
    Entry KEY_VALUE_GENERIC e = add( k );
    final VALUE_GENERIC_TYPE oldValue = e.value;
    e.value = v;
    return oldValue;
}

/** Returns a node with key k in the balanced tree, creating one with defRetValue if necessary.
 *

```

```

* @param k the key
* @return a node with key k. If a node with key k already exists, then that node is returned,
* otherwise a new node with defRetVal is created ensuring that the tree is balanced
after creation of the node.
*/
private Entry KEY_VALUE_GENERIC add( final KEY_GENERIC_TYPE k ) {
/* After execution of this method, modified is true iff a new entry has
been inserted. */
modified = false;

Entry KEY_VALUE_GENERIC e = null;
if ( tree == null ) { // The case of the empty tree is treated separately.
count++;
e
= tree = lastEntry = firstEntry = new Entry KEY_VALUE_GENERIC( k, defRetVal );
modified = true;
}
else {
Entry KEY_VALUE_GENERIC p = tree, q = null, y = tree, z = null, w = null;
int cmp, i = 0;

while( true ) {
if ( ( cmp = compare( k, p.key ) ) == 0 ) {
return p;
}

if ( p.balance() != 0 ) {
i = 0;
z = q;
y = p;
}

if ( dirPath[ i++ ] = cmp > 0 ) {
if ( p.succ() ) {
count++;
e = new Entry KEY_VALUE_GENERIC( k, defRetVal );

modified = true;
if ( p.right == null ) lastEntry = e;

e.left = p;
e.right = p.right;

p.right( e );

break;
}
}
}
}
}
}

```

```

q = p;
p = p.right;
}
else {
if ( p.pred() ) {
count++;
e = new Entry KEY_VALUE_GENERIC( k, defRetVal );

modified = true;
if ( p.left == null ) firstEntry = e;

e.right = p;
e.left = p.left;

p.left(
e );

break;
}

q = p;
p = p.left;
}
}

p = y;
i = 0;

while( p != e ) {
if ( dirPath[ i ] ) p.incBalance();
else p.decBalance();

p = dirPath[ i++ ] ? p.right : p.left;
}

if ( y.balance() == -2 ) {
Entry KEY_VALUE_GENERIC x = y.left;

if ( x.balance() == -1 ) {
w = x;
if ( x.succ() ) {
x.succ( false );
y.pred( x );
}
else y.left = x.right;

x.right = y;
x.balance( 0 );
}
}

```

```

y.balance( 0 );
}
else {
if ( ASSERTS ) assert x.balance() == 1;

w = x.right;
x.right = w.left;
w.left = x;
y.left = w.right;
w.right = y;
if ( w.balance() == -1 ) {
x.balance( 0 );
y.balance( 1 );
}
else if ( w.balance() == 0 ) {
x.balance( 0 );
y.balance( 0 );
}
else {
x.balance( -1 );
y.balance( 0 );
}
w.balance( 0 );

if ( w.pred() ) {
x.succ( w );
w.pred( false );
}
if
( w.succ() ) {
y.pred( w );
w.succ( false );
}

}
}
else if ( y.balance() == +2 ) {
Entry KEY_VALUE_GENERIC x = y.right;

if ( x.balance() == 1 ) {
w = x;
if ( x.pred() ) {
x.pred( false );
y.succ( x );
}
else y.right = x.left;

```

```

x.left = y;
x.balance( 0 );
y.balance( 0 );
}
else {
if ( ASSERTS ) assert x.balance() == -1;

w = x.left;
x.left = w.right;
w.right = x;
y.right = w.left;
w.left = y;
if ( w.balance() == 1 ) {
x.balance( 0 );
y.balance( -1 );
}
else if ( w.balance() == 0 ) {
x.balance( 0 );
y.balance( 0 );
}
else {
x.balance( 1 );
y.balance( 0 );
}
w.balance( 0 );

if ( w.pred() ) {
y.succ( w );
w.pred( false );
}
if ( w.succ() ) {
x.pred( w );
w.succ( false );
}

}
}
else return e;

if ( z == null ) tree = w;
else {
if
( z.left == y ) z.left = w;
else z.right = w;
}
}
}

```

```

if ( ASSERTS ) checkTree( tree );
return e;
}

/** Finds the parent of an entry.
 *
 * @param e a node of the tree.
 * @return the parent of the given node, or <code>null</code> for the root.
 */

private Entry KEY_VALUE_GENERIC parent( final Entry KEY_VALUE_GENERIC e ) {
if ( e == tree ) return null;

Entry KEY_VALUE_GENERIC x, y, p;
x = y = e;

while( true ) {
if ( y.succ() ) {
p = y.right;
if ( p == null || p.left != e ) {
while( ! x.pred() ) x = x.left;
p = x.left;
}
return p;
}
else if ( x.pred() ) {
p = x.left;
if ( p == null || p.right != e ) {
while( ! y.succ() ) y = y.right;
p = y.right;
}
return p;
}
}

x = x.left;
y = y.right;
}
}

/* After execution of this method, { @link #modified } is true iff an entry
has been deleted. */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE( final KEY_TYPE k
) {
modified = false;

```

```

if ( tree == null ) return defRetVal;

int cmp;
Entry KEY_VALUE_GENERIC p = tree, q = null;
boolean dir = false;
final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

while( true ) {
if ( ( cmp = compare( kk, p.key ) ) == 0 ) break;
else if ( dir = cmp > 0 ) {
q = p;
if ( ( p = p.right() ) == null ) return defRetVal;
}
else {
q = p;
if ( ( p = p.left() ) == null ) return defRetVal;
}
}

if ( p.left == null ) firstEntry = p.next();
if ( p.right == null ) lastEntry = p.prev();

if ( p.succ() ) {
if ( p.pred() ) {
if ( q != null ) {
if ( dir ) q.succ( p.right );
else q.pred( p.left );
}
else tree = dir ? p.right : p.left;
}
else {
p.prev().right = p.right;

if ( q != null ) {
if ( dir ) q.right = p.left;
else q.left = p.left;
}
else tree = p.left;
}
}
else {
Entry KEY_VALUE_GENERIC r = p.right;

if ( r.pred() ) {
r.left = p.left;
r.pred(
p.pred() );
if ( ! r.pred() ) r.prev().right = r;
}
}
}

```

```

if ( q != null ) {
    if ( dir ) q.right = r;
    else q.left = r;
}
else tree = r;

r.balance( p.balance() );
q = r;
dir = true;

}
else {
    Entry KEY_VALUE_GENERIC s;

    while( true ) {
        s = r.left;
        if ( s.pred() ) break;
        r = s;
    }

    if ( s.succ() ) r.pred( s );
    else r.left = s.right;

    s.left = p.left;

    if ( ! p.pred() ) {
        p.prev().right = s;
        s.pred( false );
    }

    s.right = p.right;
    s.succ( false );

    if ( q != null ) {
        if ( dir ) q.right = s;
        else q.left = s;
    }
    else tree = s;

    s.balance( p.balance() );
    q = r;
    dir = false;
}
}

Entry KEY_VALUE_GENERIC y;

while( q != null ) {

```

```

y = q;
q = parent( y );

if ( ! dir ) {
    dir = q != null && q.left != y;
    y.incBalance();

    if ( y.balance() == 1 ) break;
    else if ( y.balance() == 2 ) {

        Entry KEY_VALUE_GENERIC x = y.right;
        if
( ASSERTS ) assert x != null;

        if ( x.balance() == -1 ) {
            Entry KEY_VALUE_GENERIC w;

            if ( ASSERTS ) assert x.balance() == -1;

            w = x.left;
            x.left = w.right;
            w.right = x;
            y.right = w.left;
            w.left = y;

            if ( w.balance() == 1 ) {
                x.balance( 0 );
                y.balance( -1 );
            }
            else if ( w.balance() == 0 ) {
                x.balance( 0 );
                y.balance( 0 );
            }
            else {
                if ( ASSERTS ) assert w.balance() == -1;

                x.balance( 1 );
                y.balance( 0 );
            }

            w.balance( 0 );

            if ( w.pred() ) {
                y.succ( w );
                w.pred( false );
            }
            if ( w.succ() ) {
                x.pred( w );

```

```

    w.succ( false );
}

if ( q != null ) {
    if ( dir ) q.right = w;
    else q.left = w;
}
else tree = w;
}
else {
    if ( q != null ) {
        if ( dir ) q.right = x;
        else q.left = x;
    }
    else tree = x;

    if
( x.balance() == 0 ) {
    y.right = x.left;
    x.left = y;
    x.balance( -1 );
    y.balance( +1 );
    break;
}
if ( ASSERTS ) assert x.balance() == 1;

if ( x.pred() ) {
    y.succ( true );
    x.pred( false );
}
else y.right = x.left;

x.left = y;
y.balance( 0 );
x.balance( 0 );
}
}
}
else {
    dir = q != null && q.left != y;
    y.decBalance();

    if ( y.balance() == -1 ) break;
    else if ( y.balance() == -2 ) {

        Entry KEY_VALUE_GENERIC x = y.left;
        if ( ASSERTS ) assert x != null;

```

```

if ( x.balance() == 1 ) {
    Entry KEY_VALUE_GENERIC w;

    if ( ASSERTS ) assert x.balance() == 1;

    w = x.right;
    x.right = w.left;
    w.left = x;
    y.left = w.right;
    w.right = y;

    if ( w.balance() == -1 ) {
        x.balance( 0 );
        y.balance( 1 );
    }
    else if ( w.balance() == 0 ) {
        x.balance( 0 );
        y.balance( 0 );
    }
    else
{
    if ( ASSERTS ) assert w.balance() == 1;

    x.balance( -1 );
    y.balance( 0 );
}

    w.balance( 0 );

    if ( w.pred() ) {
        x.succ( w );
        w.pred( false );
    }
    if ( w.succ() ) {
        y.pred( w );
        w.succ( false );
    }

    if ( q != null ) {
        if ( dir ) q.right = w;
        else q.left = w;
    }
    else tree = w;
}
else {
    if ( q != null ) {
        if ( dir ) q.right = x;
        else q.left = x;
    }
}

```

```

    }
    else tree = x;

    if ( x.balance() == 0 ) {
        y.left = x.right;
        x.right = y;
        x.balance( +1 );
        y.balance( -1 );
        break;
    }
    if ( ASSERTS ) assert x.balance() == -1;

    if ( x.succ() ) {
        y.pred( true );
        x.succ( false );
    }
    else y.left = x.right;

    x.right = y;
    y.balance( 0 );
    x.balance( 0 );
    }
    }
    }
    }

    modified = true;
    count--;
    if ( ASSERTS ) checkTree(
tree );
    return p.value;
    }

#ifdef ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov )
{
    final VALUE_GENERIC_TYPE oldValue = put( KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov) );
    return modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ( oldValue );
}
#endif

```

```

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove( final Object ok ) {
    final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE( KEY_OBJ2TYPE( ok ) );
    return modified ? VALUE2OBJ( oldValue ) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

```

```

public boolean containsValue( final VALUE_TYPE v ) {
    final ValueIterator i = new ValueIterator();
    VALUE_GENERIC_TYPE ev;

    int j = count;
    while(
j-- != 0 ) {
        ev = i.NEXT_VALUE();
        if ( VALUE_EQUALS( ev, v ) ) return true;
    }

    return false;
}

```

```

public void clear() {
    count = 0;
    tree = null;
    entries = null;
    values = null;
    keys = null;
    firstEntry = lastEntry = null;
}

```

```

/** This class represent an entry in a tree map.
 *
 * <P>We use the only "metadata", i.e., { @link Entry#info}, to store
 * information about balance, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

```

```

private static final class Entry KEY_VALUE_GENERIC implements Cloneable, MAP.Entry
KEY_VALUE_GENERIC {
    /** If the bit in this mask is true, { @link #right } points to a successor. */

```

```

private final static int SUCC_MASK = 1 << 31;
/** If the bit in this mask is true, {@link #left} points to a predecessor. */
private final static int PRED_MASK = 1 << 30;
/** The bits in this mask hold the node balance info. You can get it just by
casting to byte. */
private final static int BALANCE_MASK = 0xFF;
/** The key of this entry. */
KEY_GENERIC_TYPE key;
/** The value of this entry. */
VALUE_GENERIC_TYPE value;
/** The pointers to the left and right subtrees. */
Entry KEY_VALUE_GENERIC left, right;
/** This integers holds different information in different bits (see {@link #SUCC_MASK}, {@link
#PRED_MASK} and {@link #BALANCE_MASK}). */
int info;

Entry() {}

/** Creates a new entry with the given key and value.
 *
 * @param k a key.
 * @param v a value.
 */
Entry( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
    this.key = k;
    this.value = v;
    info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
 *
 * @return the left subtree (<code>null</code> if the left
 * subtree is empty).
 */
Entry KEY_VALUE_GENERIC left() {
    return ( info & PRED_MASK ) != 0 ? null : left;
}

/** Returns the right subtree.
 *
 * @return the right subtree (<code>null</code>
if the right
 * subtree is empty).
 */
Entry KEY_VALUE_GENERIC right() {
    return ( info & SUCC_MASK ) != 0 ? null : right;
}

```

```

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
return ( info & PRED_MASK ) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean succ() {
return ( info & SUCC_MASK ) != 0;
}

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred( final boolean pred ) {
if ( pred ) info |= PRED_MASK;
else info &= ~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ( final boolean succ ) {
if ( succ ) info |= SUCC_MASK;
else
info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred( final Entry KEY_VALUE_GENERIC pred ) {
info |= PRED_MASK;
left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ( final Entry KEY_VALUE_GENERIC succ ) {
info |= SUCC_MASK;
right = succ;
}

/** Sets the left pointer to the given subtree.

```

```

* @param left the new left subtree.
*/
void left( final Entry KEY_VALUE_GENERIC left ) {
    info &= ~PRED_MASK;
    this.left = left;
}

/** Sets the right pointer to the given subtree.
* @param right the new right subtree.
*/
void right( final Entry KEY_VALUE_GENERIC right ) {
    info &= ~SUCC_MASK;
    this.right = right;
}

/** Returns the current level of the node.
* @return the current level of this node.
*/
int balance() {
    return (byte)info;
}

/** Sets the level of this node.
* @param
level the new level of this node.
*/
void balance( int level ) {
    info &= ~BALANCE_MASK;
    info |= ( level & BALANCE_MASK );
}

/** Increments the level of this node. */
void incBalance() {
    info = info & ~BALANCE_MASK | ( (byte)info + 1 ) & 0xFF;
}

/** Decrements the level of this node. */
protected void decBalance() {
    info = info & ~BALANCE_MASK | ( (byte)info - 1 ) & 0xFF;
}

/** Computes the next entry in the set order.
*
* @return the next entry (<code>null</code>) if this is the last entry).
*/
Entry KEY_VALUE_GENERIC next() {
    Entry KEY_VALUE_GENERIC next = this.right;
}

```

```

if ( ( info & SUCC_MASK ) == 0 ) while ( ( next.info & PRED_MASK ) == 0 ) next = next.left;
return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */

Entry KEY_VALUE_GENERIC prev() {
Entry KEY_VALUE_GENERIC prev = this.left;
if ( ( info & PRED_MASK
) == 0 ) while ( ( prev.info & SUCC_MASK ) == 0 ) prev = prev.right;
return prev;
}

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public KEY_GENERIC_CLASS getKey() {
return KEY2OBJ(key);
}

#if ! #keyclass(Object)
public KEY_GENERIC_TYPE ENTRY_GET_KEY() {
return key;
}
#endif

#if #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public VALUE_GENERIC_CLASS getValue() {
return VALUE2OBJ(value);
}

#if #values(primitive)
public VALUE_TYPE ENTRY_GET_VALUE() {
return value;
}
#endif

public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE value) {
final VALUE_GENERIC_TYPE oldValue = this.value;

```

```

    this.value = value;
    return oldValue;
}

#if #values(primitive)

public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS value) {
    return
VALUE2OBJ(setValue(VALUE_CLASS2TYPE(value)));
}

#endif

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public Entry KEY_VALUE_GENERIC clone() {
    Entry KEY_VALUE_GENERIC c;
    try {
        c = (Entry KEY_VALUE_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }

    c.key = key;
    c.value = value;
    c.info = info;

    return c;
}

@SuppressWarnings("unchecked")
public boolean equals( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

    return KEY_EQUALS( key, KEY_CLASS2TYPE( e.getKey() ) ) && VALUE_EQUALS( value,
VALUE_CLASS2TYPE( e.getValue() ) );
}

public int hashCode() {
    return KEY2JAVAHASH_NOT_NULL(key) ^ VALUE2JAVAHASH(value);
}

public String toString() {
    return key + "=>" + value;
}

```

```

/*
public void prettyPrint() {
    prettyPrint(0);
}

public
void prettyPrint(int level) {
    if ( pred() ) {
        for (int i = 0; i < level; i++)
            System.err.print(" ");
        System.err.println("pred: " + left );
    }
    else if (left != null)
        left.prettyPrint(level +1 );
    for (int i = 0; i < level; i++)
        System.err.print(" ");
    System.err.println(key + "=" + value + " (" + balance() + ")");
    if ( succ() ) {
        for (int i = 0; i < level; i++)
            System.err.print(" ");
        System.err.println("succ: " + right );
    }
    else if (right != null)
        right.prettyPrint(level + 1);
    }
*/
}

```

```

/*
public void prettyPrint() {
    System.err.println("size: " + count);
    if (tree != null) tree.prettyPrint();
}
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey( final KEY_TYPE k ) {
    return findKey( KEY_GENERIC_CAST k ) != null;
}

```

```

public int size() {
    return count;
}

```

```

public boolean isEmpty() {
    return count == 0;
}

```

```
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED  
public VALUE_GENERIC_TYPE GET_VALUE(  
final KEY_TYPE k ) {  
    final Entry KEY_VALUE_GENERIC e = findKey( KEY_GENERIC_CAST k );  
    return e == null ? defRetVal : e.value;  
}
```

```
#if #keyclass(Object) && #values(primitive)  
/** {@inheritDoc}  
 * @deprecated Please use the corresponding type-specific method instead. */  
@Deprecated  
@Override  
SUPPRESS_WARNINGS_KEY_UNCHECKED  
public VALUE_GENERIC_CLASS get( final Object ok ) {  
    final Entry KEY_VALUE_GENERIC e = findKey( KEY_GENERIC_CAST ok );  
    return e == null ? OBJECT_DEFAULT_RETURN_VALUE : e.getValue();  
}
```

```
#endif
```

```
public KEY_GENERIC_TYPE FIRST_KEY() {  
    if ( tree == null ) throw new NoSuchElementException();  
    return firstEntry.key;  
}
```

```
public KEY_GENERIC_TYPE LAST_KEY() {  
    if ( tree == null ) throw new NoSuchElementException();  
    return lastEntry.key;  
}
```

```
/** An abstract iterator on the whole range.  
 *  
 * <P>This class can iterate in both directions on a threaded tree.  
 */
```

```
private class TreeIterator {  
    /** The entry that will be returned by the next call to {@link  
    java.util.ListIterator#previous()} (or <code>null</code> if no previous entry exists). */  
    Entry KEY_VALUE_GENERIC prev;  
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>null</code> if  
    no next entry exists). */  
    Entry KEY_VALUE_GENERIC next;  
    /** The last entry that was returned (or <code>null</code> if we did not iterate or used {@link #remove()}). */  
    Entry KEY_VALUE_GENERIC curr;
```

```
/** The current index (in the sense of a {@link java.util.ListIterator}). Note that this value is not meaningful when this {@link TreeIterator} has been created using the nonempty constructor.*/
```

```
int index = 0;
```

```
TreeIterator() {  
    next = firstEntry;  
}
```

```
TreeIterator( final KEY_GENERIC_TYPE k ) {  
    if ( ( next = locateKey( k ) ) != null ) {  
        if ( compare( next.key, k ) <= 0 ) {  
            prev = next;  
            next = next.next();  
        }  
        else prev = next.prev();  
    }  
}
```

```
public boolean hasNext() { return next != null; }
```

```
public boolean
```

```
hasPrevious() { return prev != null; }
```

```
void updateNext() {  
    next = next.next();  
}
```

```
Entry KEY_VALUE_GENERIC nextEntry() {  
    if ( ! hasNext() ) throw new NoSuchElementException();  
    curr = prev = next;  
    index++;  
    updateNext();  
    return curr;  
}
```

```
void updatePrevious() {  
    prev = prev.prev();  
}
```

```
Entry KEY_VALUE_GENERIC previousEntry() {  
    if ( ! hasPrevious() ) throw new NoSuchElementException();  
    curr = next = prev;  
    index--;  
    updatePrevious();  
    return curr;  
}
```

```
public int nextIndex() {  
    return index;  
}
```

```

}

public int previousIndex() {
    return index - 1;
}

public void remove() {
    if ( curr == null ) throw new IllegalStateException();
    /* If the last operation was a next(), we are removing an entry that precedes
       the current index, and thus we must decrement it. */
    if ( curr == prev ) index--;
    next = prev = curr;
    updatePrevious();
    updateNext();
    AVL_TREE_MAP.this.REMOVE_VALUE( curr.key );
    curr = null;
}

public
int skip( final int n ) {
    int i = n;
    while( i-- != 0 && hasNext() ) nextEntry();
    return n - i - 1;
}

public int back( final int n ) {
    int i = n;
    while( i-- != 0 && hasPrevious() ) previousEntry();
    return n - i - 1;
}
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class EntryIterator extends TreeIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
    EntryIterator() {}

    EntryIterator( final KEY_GENERIC_TYPE k ) {
        super( k );
    }

    public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
    public MAP.Entry KEY_VALUE_GENERIC previous() { return previousEntry(); }
}

```

```

public void set( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
public void add( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
    if ( entries == null
) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
        final Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator = new Comparator<MAP.Entry
KEY_VALUE_GENERIC> () {
            public int compare( final MAP.Entry KEY_VALUE_GENERIC x, final MAP.Entry KEY_VALUE_GENERIC y )
        {
            return AVL_TREE_MAP.this.actualComparator.compare( x.ENTRY_GET_KEY(), y.ENTRY_GET_KEY() );
        }
    };
}

public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() {
    return comparator;
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
    return new EntryIterator();
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator( final MAP.Entry
KEY_VALUE_GENERIC from ) {
    return new EntryIterator( from.ENTRY_GET_KEY() );
}

@SuppressWarnings("unchecked")
public boolean contains( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>
e = (Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
    final Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
    return e.equals( f );
}

@SuppressWarnings("unchecked")
public boolean remove( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry
<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
    final Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
    if ( f != null ) AVL_TREE_MAP.this.REMOVE_VALUE( f.key );
    return f != null;
}

```

```

public int size() { return count; }
public void clear() { AVL_TREE_MAP.this.clear(); }

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry; }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry; }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet( MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to ) { return
subMap( from.ENTRY_GET_KEY(), to.ENTRY_GET_KEY() ).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet( MAP.Entry KEY_VALUE_GENERIC to
) { return headMap( to.ENTRY_GET_KEY() ).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet( MAP.Entry KEY_VALUE_GENERIC
from ) { return tailMap( from.ENTRY_GET_KEY() ).ENTRYSET(); }
};

return entries;
}

/** An iterator on the whole range of keys.
 *
 * <P>This class can iterate in both directions on the keys of a threaded tree. We
 * simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and
possibly
 * their type-specific counterparts) so that they return keys instead of entries.
 */
private final class KeyIterator extends TreeIterator implements KEY_LIST_ITERATOR KEY_GENERIC {
public KeyIterator() { }
public KeyIterator( final KEY_GENERIC_TYPE k ) { super( k ); }
public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key;
}
public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
public void add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }

#if !#keyclass(Object)
public KEY_GENERIC_CLASS next() { return KEY2OBJ( nextEntry().key ); }
public KEY_GENERIC_CLASS previous() { return KEY2OBJ( previousEntry().key ); }
public void set( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
public void add( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

/** A keyset implementation using a more direct implementation for iterators. */
private class KeySet extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC.KeySet {
public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new KeyIterator(); }
public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return new
KeyIterator( from ); }

```

```

}

/** Returns a type-specific sorted set
view of the keys contained in this map.
*
* <P>In addition to the semantics of { @link java.util.Map#keySet() }, you can
* safely cast the set returned by this call to a type-specific sorted
* set interface.
*
* @return a type-specific sorted set view of the keys contained in this map.
*/
public SORTED_SET KEY_GENERIC keySet() {
    if ( keys == null ) keys = new KeySet();
    return keys;
}

/** An iterator on the whole range of values.
*
* <P>This class can iterate in both directions on the values of a threaded tree. We
* simply override the { @link java.util.ListIterator#next()}/{ @link java.util.ListIterator#previous() } methods (and
possibly
* their type-specific counterparts) so that they return values instead of entries.
*/
private final class ValueIterator extends TreeIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
    public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
    public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
}
public void set( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
public void add( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }

#if #values(primitive)
    public VALUE_GENERIC_CLASS next() { return VALUE2OBJ( nextEntry().value ); }
    public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ( previousEntry().value ); }
    public void set( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
    public void add( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

/** Returns a type-specific collection view of the values contained in this map.
*
* <P>In addition to the semantics of { @link java.util.Map#values() }, you can
* safely cast the collection returned by this call to a type-specific collection
* interface.
*
* @return a type-specific collection view of the values contained in this map.
*/

public VALUE_COLLECTION VALUE_GENERIC values() {

```

```

if ( values == null ) values
= new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
    public VALUE_ITERATOR VALUE_GENERIC iterator() {
        return new ValueIterator();
    }

    public boolean contains( final VALUE_TYPE k ) {
        return containsValue( k );
    }

    public int size() {
        return count;
    }

    public void clear() {
        AVL_TREE_MAP.this.clear();
    }

};

return values;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap( KEY_GENERIC_TYPE to ) {
    return new Submap( KEY_NULL, true, to, false );
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap( KEY_GENERIC_TYPE from ) {
    return new Submap( from, false, KEY_NULL, true );
}

public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to ) {
    return new Submap( from, false, to, false );
}

/** A submap with given range.
 *
 * <P>This class represents a submap. One has to specify the left/right
 * limits (which
can be set to  $-\infty$ ; or  $\infty$ ;) . Since the submap is a
 * view on the map, at a given moment it could happen that the limits of
 * the range are not any longer in the main map. Thus, things such as
 * { @link java.util.SortedMap#firstKey()} or { @link java.util.Collection#size()} must be always computed

```

```

* on-the-fly.
*/
private final class Submap extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC implements
java.io.Serializable {
    private static final long serialVersionUID = -7046029254386353129L;

    /** The start of the submap range, unless { @link #bottom } is true. */
    KEY_GENERIC_TYPE from;
    /** The end of the submap range, unless { @link #top } is true. */
    KEY_GENERIC_TYPE to;
    /** If true, the submap range starts from  $-\infty$ . */
    boolean bottom;
    /** If true, the submap range goes to  $\infty$ . */
    boolean top;
    /** Cached set of entries. */
    @SuppressWarnings("hiding")
    protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;
    /** Cached
    set of keys. */
    @SuppressWarnings("hiding")
    protected transient volatile SORTED_SET KEY_GENERIC keys;
    /** Cached collection of values. */
    @SuppressWarnings("hiding")
    protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

    /** Creates a new submap with given key range.
    *
    * @param from the start of the submap range.
    * @param bottom if true, the first parameter is ignored and the range starts from  $-\infty$ .
    * @param to the end of the submap range.
    * @param top if true, the third parameter is ignored and the range goes to  $\infty$ .
    */
    public Submap( final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE to, final
    boolean top ) {
        if ( ! bottom && ! top && AVL_TREE_MAP.this.compare( from, to ) > 0 ) throw new IllegalArgumentException(
        "Start key (" + from + ") is larger than end key (" + to + ")" );

        this.from = from;
        this.bottom = bottom;
        this.to = to;
        this.top = top;
        this.defRetValue = AVL_TREE_MAP.this.defRetValue;
    }

    public
    void clear() {
        final SubmapIterator i = new SubmapIterator();
        while( i.hasNext() ) {

```

```

    i.nextEntry();
    i.remove();
}
}

/** Checks whether a key is in the submap range.
 * @param k a key.
 * @return true if is the key is in the submap range.
 */
final boolean in( final KEY_GENERIC_TYPE k ) {
    return ( bottom || AVL_TREE_MAP.this.compare( k, from ) >= 0 ) &&
        ( top || AVL_TREE_MAP.this.compare( k, to ) < 0 );
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
    if ( entries == null ) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
        public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
            return new SubmapEntryIterator();
        }

        public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator( final MAP.Entry
KEY_VALUE_GENERIC from ) {
            return new SubmapEntryIterator( from.ENTRY_GET_KEY() );
        }

        public Comparator<? super
MAP.Entry KEY_VALUE_GENERIC> comparator() { return AVL_TREE_MAP.this.entrySet().comparator(); }

        @SuppressWarnings("unchecked")
        public boolean contains( final Object o ) {
            if (!(o instanceof Map.Entry)) return false;
            final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry
<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)>o;
            final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
            return f != null && in( f.key ) && e.equals( f );
        }

        @SuppressWarnings("unchecked")
        public boolean remove( final Object o ) {
            if (!(o instanceof Map.Entry)) return false;
            final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry
<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)>o;
            final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
            if ( f != null && in( f.key ) ) Submap.this.REMOVE_VALUE( f.key );
            return f != null;
        }

        public int size() {

```

```

    int
c = 0;
    for( Iterator<?> i = iterator(); i.hasNext(); i.next() ) c++;
    return c;
}

public boolean isEmpty() {
    return ! new SubmapIterator().hasNext();
}

public void clear() {
    Submap.this.clear();
}

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry(); }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet( MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to ) { return subMap( from.ENTRY_GET_KEY(),
to.ENTRY_GET_KEY() ).ENTRYSET(); }
    public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet( MAP.Entry KEY_VALUE_GENERIC to
) { return headMap( to.ENTRY_GET_KEY() ).ENTRYSET(); }
    public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet( MAP.Entry KEY_VALUE_GENERIC
from ) { return tailMap( from.ENTRY_GET_KEY() ).ENTRYSET(); }
};

return entries;
}

private class KeySet extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC.KeySet {
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new SubmapKeyIterator(); }
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return new
SubmapKeyIterator( from ); }
}

public SORTED_SET KEY_GENERIC keySet() {
    if ( keys == null ) keys = new KeySet();
    return keys;
}

public VALUE_COLLECTION VALUE_GENERIC values() {
    if ( values == null ) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
        public VALUE_ITERATOR VALUE_GENERIC iterator() {
            return new SubmapValueIterator();
        }
    }

    public boolean contains( final VALUE_TYPE k ) {

```

```

    return containsValue( k );
}

public int size() {
    return Submap.this.size();
}

public void clear() {
    Submap.this.clear();
}

};

return values;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey( final KEY_TYPE k ) {
    return in( KEY_GENERIC_CAST k )
    && AVL_TREE_MAP.this.containsKey( k );
}

public boolean containsValue( final VALUE_TYPE v ) {
    final SubmapIterator i = new SubmapIterator();
    VALUE_TYPE ev;

    while( i.hasNext() ) {
        ev = i.nextEntry().value;
        if ( VALUE_EQUALS( ev, v ) ) return true;
    }

    return false;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
    final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;
    return in( kk ) && ( e = findKey( kk ) ) != null ? e.value : this.defRetVal;
}

#if #keyclass(Object) && #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get( final Object ok ) {
    final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST KEY_OBJ2TYPE( ok );
    return in( kk ) && ( e
= findKey( kk ) ) != null ? e.getValue() : OBJECT_DEFAULT_RETURN_VALUE;
    }
#endif

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
    modified = false;
    if ( ! in( k ) ) throw new IllegalArgumentException( "Key (" + k + ") out of range [" + ( bottom ? "-" :
String.valueOf( from ) ) + ", " + ( top ? "-" : String.valueOf( to ) ) + "]" );
    final VALUE_GENERIC_TYPE oldValue = AVL_TREE_MAP.this.put( k, v );
    return modified ? this.defRetVal : oldValue;
    }

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov )
{
    final VALUE_GENERIC_TYPE oldValue = put( KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov) );
    return modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ( oldValue );
    }
#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public
VALUE_GENERIC_TYPE REMOVE_VALUE( final KEY_TYPE k ) {
    modified = false;
    if ( ! in( KEY_GENERIC_CAST k ) ) return this.defRetVal;
    final VALUE_GENERIC_TYPE oldValue = AVL_TREE_MAP.this.REMOVE_VALUE( k );
    return modified ? oldValue : this.defRetVal;
    }

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove( final Object ok ) {
    final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE( KEY_OBJ2TYPE( ok ) );
    return modified ? VALUE2OBJ( oldValue ) : OBJECT_DEFAULT_RETURN_VALUE;
    }

```

```

#endif

public int size() {
    final SubmapIterator i = new SubmapIterator();
    int n = 0;

    while( i.hasNext() ) {
        n++;
        i.nextEntry();
    }

    return n;
}

public boolean isEmpty() {
    return ! new SubmapIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_TYPE to ) {
    if ( top ) return new Submap( from, bottom, to, false );
    return compare( to, this.to ) < 0 ? new Submap( from, bottom, to, false ) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_TYPE from ) {
    if ( bottom ) return new Submap( from, false, to, top );
    return compare( from, this.from ) > 0 ? new Submap( from, false, to, top ) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to ) {
    if ( top && bottom ) return new Submap( from, false, to, false );
    if ( ! top ) to = compare( to, this.to ) < 0 ? to : this.to;
    if ( ! bottom ) from = compare( from, this.from ) > 0 ? from : this.from;
    if ( ! top && ! bottom && from == this.from && to == this.to ) return this;
    return new Submap( from, false, to, false );
}

/** Locates the first entry.
 *
 * @return the first entry of this submap, or <code>null</code>
if the submap is empty.
 */

```

```

public AVL_TREE_MAP.Entry KEY_VALUE_GENERIC firstEntry() {
    if ( tree == null ) return null;
    // If this submap goes to -infinity, we return the main map first entry; otherwise, we locate the start of the map.
    AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    if ( bottom ) e = firstEntry;
    else {
        e = locateKey( from );
        // If we find either the start or something greater we're OK.
        if ( compare( e.key, from ) < 0 ) e = e.next();
    }
    // Finally, if this subset doesn't go to infinity, we check that the resulting key isn't greater than the end.
    if ( e == null || ! top && compare( e.key, to ) >= 0 ) return null;
    return e;
}

/** Locates the last entry.
 *
 * @return the last entry of this submap, or <code>null</code> if the submap is empty.
 */
public AVL_TREE_MAP.Entry KEY_VALUE_GENERIC lastEntry() {
    if ( tree == null ) return null;
    // If this submap goes to infinity, we return the main map last entry;
    otherwise, we locate the end of the map.
    AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    if ( top ) e = lastEntry;
    else {
        e = locateKey( to );
        // If we find something smaller than the end we're OK.
        if ( compare( e.key, to ) >= 0 ) e = e.prev();
    }
    // Finally, if this subset doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
    if ( e == null || ! bottom && compare( e.key, from ) < 0 ) return null;
    return e;
}

public KEY_GENERIC_TYPE FIRST_KEY() {
    AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

public KEY_GENERIC_TYPE LAST_KEY() {
    AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = lastEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

#if !#keyclass(Object)
/** { @inheritDoc}

```

```

    * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    @Override
    public KEY_GENERIC_CLASS
    firstKey() {
        AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
        if ( e == null ) throw new NoSuchElementException();
        return e.getKey();
    }

    /** { @inheritDoc }
    * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    @Override
    public KEY_GENERIC_CLASS lastKey() {
        AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = lastEntry();
        if ( e == null ) throw new NoSuchElementException();
        return e.getKey();
    }
#endif

/** An iterator for subranges.
 *
 * <P>This class inherits from { @link TreeIterator }, but overrides the methods that
 * update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
 would
 * move out of the range of the submap we just overwrite the next or previous
 * entry with <code>null</code>.
 */
private class SubmapIterator extends TreeIterator {
    SubmapIterator() {
        next = firstEntry();
    }

    SubmapIterator( final KEY_GENERIC_TYPE k ) {
        this();

        if ( next != null ) {
            if ( ! bottom && compare( k, next.key ) < 0 ) prev = null;
            else if ( ! top && compare( k, ( prev = lastEntry() ).key ) >= 0 ) next = null;
            else {
                next = locateKey( k );

                if ( compare( next.key, k ) <= 0 ) {
                    prev = next;
                    next = next.next();
                }
            }
        }
    }

```

```

    else prev = next.prev();
    }
    }
}

void updatePrevious() {
    prev = prev.prev();
    if ( ! bottom && prev != null && AVL_TREE_MAP.this.compare( prev.key, from ) < 0 ) prev = null;
}

void updateNext() {
    next = next.next();
    if ( ! top && next != null && AVL_TREE_MAP.this.compare( next.key, to ) >= 0 ) next = null;
}
}

private class SubmapEntryIterator extends SubmapIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
    SubmapEntryIterator() {}

    SubmapEntryIterator( final KEY_GENERIC_TYPE k ) {
        super( k );
    }

    public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
    public
    MAP.Entry KEY_VALUE_GENERIC previous() { return previousEntry(); }

    public void set( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
    public void add( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
}

/** An iterator on a subrange of keys.
 *
 * <P>This class can iterate in both directions on a subrange of the
 * keys of a threaded tree. We simply override the {@link
 * java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
 * type-specific counterparts) so that they return keys instead of
 * entries.
 */
private final class SubmapKeyIterator extends SubmapIterator implements KEY_LIST_ITERATOR
KEY_GENERIC {
    public SubmapKeyIterator() { super(); }
    public SubmapKeyIterator( KEY_GENERIC_TYPE from ) { super( from ); }
    public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
    public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }
}

```

```

}
public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
public void add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
#if !#keyclass(Object)
public KEY_GENERIC_CLASS next() { return KEY2OBJ( nextEntry().key ); }
public KEY_GENERIC_CLASS previous() { return KEY2OBJ( previousEntry().key ); }
public void set( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
public void add( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

/** An iterator on a subrange of values.
 *
 * <P>This class can iterate in both directions on the values of a
 * subrange of the keys of a threaded tree. We simply override the
 * {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
 * type-specific counterparts) so that they return values instead of
 * entries.
 */
private final class SubmapValueIterator extends
SubmapIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
public void set( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
public void add( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }

#if #values(primitive)
public VALUE_GENERIC_CLASS next() { return VALUE2OBJ( nextEntry().value ); }
public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ( previousEntry().value ); }
public void set( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
public void add( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

}

/** Returns a deep copy of this tree map.
 *
 * <P>This method performs a deep copy of this tree map; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return
a deep copy of this tree map.
 */
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED

```

```

public AVL_TREE_MAP KEY_VALUE_GENERIC clone() {
    AVL_TREE_MAP KEY_VALUE_GENERIC c;
    try {
        c = (AVL_TREE_MAP KEY_VALUE_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }

    c.keys = null;
    c.values = null;
    c.entries = null;
    c.allocatePaths();

    if ( count != 0 ) {
        // Also this apparently unfathomable code is derived from GNU libavl.
        Entry KEY_VALUE_GENERIC e, p, q, rp = new Entry KEY_VALUE_GENERIC(), rq = new Entry
KEY_VALUE_GENERIC();

        p = rp;
        rp.left( tree );

        q = rq;
        rq.pred( null );

        while( true ) {
            if ( ! p.pred() ) {
                e = p.left.clone();
                e.pred( q.left );
                e.succ( q );
                q.left( e );

                p = p.left;
                q = q.left;
            }
            else {
                while( p.succ() ) {
                    p = p.right;

                    if ( p == null ) {
                        q.right = null;
                        c.tree = rq.left;

                        c.firstEntry = c.tree;
                        while(
c.firstEntry.left != null ) c.firstEntry = c.firstEntry.left;
                        c.lastEntry = c.tree;
                        while( c.lastEntry.right != null ) c.lastEntry = c.lastEntry.right;

```

```

    return c;
}
q = q.right;
}

p = p.right;
q = q.right;
}

if ( ! p.succ() ) {
    e = p.right.clone();
    e.succ( q.right );
    e.pred( q );
    q.right( e );
}
}
}

return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    int n = count;
    EntryIterator i = new EntryIterator();
    Entry KEY_VALUE_GENERIC e;

    s.defaultWriteObject();

    while(n-- != 0) {
        e = i.nextEntry();
        s.WRITE_KEY( e.key );
        s.WRITE_VALUE( e.value );
    }
}

/** Reads the given number of entries from the input stream, returning the corresponding tree.
 *
 * @param s the input stream.
 * @param n the (positive) number of entries to read.
 * @param pred the entry containing the key that precedes the first key in the tree.
 *
 * @param succ the entry containing the key that follows the last key in the tree.
 */
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
private Entry KEY_VALUE_GENERIC readTree( final java.io.ObjectInputStream s, final int n, final Entry

```

```

KEY_VALUE_GENERIC pred, final Entry KEY_VALUE_GENERIC succ ) throws java.io.IOException,
ClassNotFoundException {
    if ( n == 1 ) {
        final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC( KEY_GENERIC_CAST
s.READ_KEY(), VALUE_GENERIC_CAST s.READ_VALUE() );
        top.pred( pred );
        top.succ( succ );

        return top;
    }

    if ( n == 2 ) {
        /* We handle separately this case so that recursion will
        *always* be on nonempty subtrees. */
        final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC( KEY_GENERIC_CAST
s.READ_KEY(), VALUE_GENERIC_CAST s.READ_VALUE() );
        top.right( new Entry KEY_VALUE_GENERIC( KEY_GENERIC_CAST s.READ_KEY(),
VALUE_GENERIC_CAST s.READ_VALUE() ) );
        top.right.pred( top );
        top.balance( 1 );
        top.pred( pred );
        top.right.succ(
succ );

        return top;
    }

    // The right subtree is the largest one.
    final int rightN = n / 2, leftN = n - rightN - 1;

    final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC();

    top.left( readTree( s, leftN, pred, top ) );

    top.key = KEY_GENERIC_CAST s.READ_KEY();
    top.value = VALUE_GENERIC_CAST s.READ_VALUE();

    top.right( readTree( s, rightN, top, succ ) );

    if ( n == ( n & -n ) ) top.balance( 1 ); // Quick test for determining whether n is a power of 2.

    return top;
}

private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();
}

```

```

/* The storedComparator is now correctly set, but we must restore
   on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if ( count != 0 ) {
    tree = readTree( s, count, null, null );
    Entry KEY_VALUE_GENERIC e;

    e = tree;
    while( e.left() != null ) e = e.left();
    firstEntry = e;

    e = tree;
    while(
e.right() != null ) e = e.right();
    lastEntry = e;
}

if ( ASSERTS ) checkTree( tree );
}

#ifdef ASSERTS_CODE
private static KEY_VALUE_GENERIC int checkTree( Entry KEY_VALUE_GENERIC e ) {
    if ( e == null ) return 0;

    final int leftN = checkTree( e.left() ), rightN = checkTree( e.right() );
    if ( leftN + e.balance() != rightN )
        throw new AssertionError( "Mismatch between left tree size (" + leftN + "), right tree size (" + rightN + ") and
balance (" + e.balance() + ")" );

    return Math.max( leftN , rightN ) + 1;
}
#else
private static KEY_VALUE_GENERIC int checkTree( @SuppressWarnings("unused") Entry
KEY_VALUE_GENERIC e ) { return 0; }
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)

```

```

return r.NEXT_KEY();

#else
return Integer.toBinaryString( r.nextInt() );
#endif
}

private static VALUE_TYPE genValue() {
#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
return (VALUE_TYPE)(r.nextInt());
#elif #values(primitive)
return r.NEXT_VALUE();
#elif !#valueclass(Reference) || #keyclass(Reference)
return Integer.toBinaryString( r.nextInt() );
#else
return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
StringBuffer s = new StringBuffer();
return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
int i, j;
AVL_TREE_MAP m;
java.util.TreeMap t;
KEY_TYPE k[] = new KEY_TYPE[n];
KEY_TYPE nk[] = new KEY_TYPE[n];
VALUE_TYPE v[] = new VALUE_TYPE[n];
long ms;

for( i = 0; i < n; i++ ) {
k[i] = genKey();
nk[i]
= genKey();
v[i] = genValue();
}

double totPut = 0, totYes = 0, totNo = 0, totAddTo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd, ddd;

if ( comp ) { for( j = 0; j < 20; j++ ) {

```

```

t = new java.util.TreeMap();

/* We first add all pairs to t. */
for( i = 0; i < n; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );

/* Then we remove the first half and put it back. */
for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );

ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for( i = n/2; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for( i = n/2; i < n; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );
d += System.currentTimeMillis() - ms;
if ( j >
2 ) totPut += n/d;
System.out.print("Add: " + format( n/d ) +" K/s " );

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );
dd += System.currentTimeMillis() - ms ;
if ( j > 2 ) totRemYes += n/dd;
System.out.print("RemYes: " + format( n/dd ) +" K/s " );

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );

#if #values(primitive) && !#valueclass(Boolean)
/* we perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) t.put( KEY2OBJ( k[i] ), (VALUE_TYPE) ((VALUE_CLASS) t.get( KEY2OBJ(k[i])) + i ) );
ddd = System.currentTimeMillis() - ms;
if ( j > 2 ) totAddTo += n/ddd;
System.out.print("AddTo: " + format( n/ddd ) +" K/s " );
#endif

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) t.containsKey(
KEY2OBJ( k[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );

```

```

if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) t.containsKey( KEY2OBJ( nk[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );

/* We iterate on t. */
ms = System.currentTimeMillis();
for( Iterator it = t.entrySet().iterator(); it.hasNext(); it.next() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "java.util Put: " + format( totPut/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + "K/s AddTo: " + format( totAddTo/(j-3)
) + " K/s IterFor: " + format( totIterFor/(j-3) ) + " K/s" );

System.out.println();

t = null;
totPut = totYes = totNo = totIterFor = totIterBack = totRemYes = totAddTo = 0;

}

for( j = 0; j < 20; j++ ) {

m = new AVL_TREE_MAP();

/* We first add all pairs to m. */
for( i = 0; i < n; i++ ) m.put( k[i], v[i] );

/* Then we remove the first half and put it back. */
for( i = 0; i < n/2; i++ ) m.remove( k[i] );

ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.put( k[i], v[i] );
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();

```

```

for( i = n/2; i < n; i++ ) m.remove( k[i] );
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for( i = n/2; i < n; i++ ) m.put( k[i], v[i] );
d += System.currentTimeMillis() - ms;
if ( j > 2 ) totPut += n/d;
System.out.print("Add: " + format( n/d ) + " K/s " );

/*
Then we remove again the first half. */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.remove( k[i] );
dd += System.currentTimeMillis() - ms ;
if ( j > 2 ) totRemYes += n/dd;
System.out.print("RemYes: " + format( n/dd ) + " K/s " );

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) m.put( k[i], v[i] );

#if #values(primitive) && !#valueclass(Boolean)
/* we perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.addTo( k[i], (VALUE_TYPE) i );
ddd = System.currentTimeMillis() - ms;
if ( j > 2 ) totAddTo += n/ddd;
System.out.print("AddTo: " + format( n/ddd ) + " K/s " );
#endif

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.containsKey( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for
pairs not in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.containsKey( nk[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );

/* We iterate on m. */
java.util.ListIterator it = (java.util.ListIterator)m.entrySet().iterator();
ms = System.currentTimeMillis();

```

```

for( it = (java.util.ListIterator)m.entrySet().iterator(); it.hasNext(); it.next() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) + " K/s " );

/* We iterate back on m. */
ms = System.currentTimeMillis();
for( ; it.hasPrevious(); it.previous() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterBack += d;
System.out.print("IterBack: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "fastutil Put: " +
format( totPut/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s Yes: " + format( totYes/(j-3) ) + " K/s
No: " + format( totNo/(j-3) ) + " K/s AddTo: " + format( totAddTo/(j-3) ) + " K/s IterFor: " + format( totIterFor/(j-3) )
+ " K/s" );

System.out.println();

}

private static boolean valEquals(Object o1, Object o2) {
return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal( String msg ) {
System.out.println( msg );
System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
if ( cond ) return;
fatal( msg );
}

private static void compareMT( SORTED_MAP m, SortedMap t, int level, long seed ) {
/* Now we check that m and t are equal. */
if ( !m.equals( t ) || !t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );
}

```

```

/*
Now we check that m actually holds that data. */
for(Iterator i=t.entrySet().iterator(); i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    ensure( valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on t)" );
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
    Entry e = (Entry)i.next();
    ensure( valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on m)" );
}

/* Now we check that m actually holds the same keys. */
for(Iterator i=t.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+") after insertion
(iterating on t)" );
    ensure( m.keySet().contains(o), "Error (" + level
+ ", " + seed + "): m and t differ on a key (" +o+", in keySet()) after insertion (iterating on t)" );
}

/* Now we check that m actually holds the same keys, but iterating on m. */
for(Iterator i=m.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after insertion (iterating on m)"
);
    ensure( t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after insertion
(iterating on m)" );
}

/* Now we check that m actually hold the same values. */
for(Iterator i=t.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
t)" );
    ensure( m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on t)" );
}

/* Now we check that
m actually hold the same values, but iterating on m. */
for(Iterator i=m.values().iterator(); i.hasNext(); ) {

```

```

    Object o = i.next();
    ensure( t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
m)");
    ensure( t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on m)");
    }

}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static VALUE_TYPE vt[];
private static AVL_TREE_MAP topMap;

protected static void testMaps( SORTED_MAP m, SortedMap t, int n, int level ) {
    long ms;
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
    Object rt = null, rm = null;

    if ( level > 4 ) return;

    /* Now we check that both maps agree on first/last keys. */

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.firstKey();
    }
    catch
    ( NoSuchElementException e ) { mThrowsNoElement = true; }
    try {
        t.firstKey();
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence at
start in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
    if ( ! mThrowsNoElement ) ensure( t.firstKey().equals( m.firstKey() ), "Error (" + level + ", " + seed + "): m and t
differ at start on their first key (" + m.firstKey() + ", " + t.firstKey() + ")");

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.lastKey();
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }

```

```

try {
    t.lastKey();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence at
start in NoSuchElementException
(" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

if ( ! mThrowsNoElement ) ensure( t.lastKey().equals( m.lastKey() ), "Error (" + level + ", " + seed + "): m and t
differ at start on their last key (" + m.lastKey() + ", " + t.lastKey() + ")");

compareMT( m, t, level, seed );

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.containsKey(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        t.containsKey(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " +
seed + "): containsKey() divergence in NoSuchElementException (" + mThrowsNoElement + ", " +
tThrowsNoElement + ")");
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): containsKey() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
    if ( !mThrowsNoElement && !mThrowsIllegal ) {
        ensure( m.containsKey(KEY2OBJ(T)) == t.containsKey(KEY2OBJ(T)), "Error (" + level + ", " + seed + "):
divergence in keys between t and m (polymorphic method)" );
    }

#if #keyclass(Object) && ! ( #values(reference) )
    if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
        t.get(KEY2OBJ(T)) != null &&

```

```

    ! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
    if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
    t.get(KEY2OBJ(T)) != null &&
    !
    m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
    {
        System.out.println("Error (" + level + ", " + seed + "): divergence between t and m (polymorphic method)");
        System.exit( 1 );
    }
}
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.get(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        t.get(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): get() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement
+ ", " + tThrowsNoElement + " ) );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): get() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + " ) );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T))),
"Error (" + level + ", " + seed + "): divergence between t and m (standard method) );
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();
    VALUE_TYPE U = genValue();

```

```
mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;
```

```
try {  
  rm = m.put(KEY2OBJ(T), VALUE2OBJ(U));  
}  
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }  
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
```

```
try {  
  rt = t.put(KEY2OBJ(T), VALUE2OBJ(U));  
}  
catch ( NoSuchElementException e ) { tThrowsNoElement = true;  
}  
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
```

```
ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): put() divergence in  
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + " ) );  
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): put() divergence in  
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + " ) );  
if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals( rm, rt ), "Error (" + level + ", " + seed + "):  
divergence in put() between t and m (" + rt + ", " + rm + " ) );
```

```
T = genKey();
```

```
mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;
```

```
try {  
  rm = m.remove(KEY2OBJ(T));  
}  
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }  
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
```

```
try {  
  rt = t.remove(KEY2OBJ(T));  
}  
catch ( NoSuchElementException  
e ) { tThrowsNoElement = true; }  
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
```

```
ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in  
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + " ) );  
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in  
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + " ) );  
if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals( rm, rt ), "Error (" + level + ", " + seed + "):
```

```

divergence in remove() between t and m (" + rt + ", " + rm + " " );
}

compareMT( m, t, level, seed );

#if #values(primitive) && !#valueclass(Boolean)
/* Now we check that addTo results in the same values as get/put */
if (m instanceof AVL_TREE_MAP) {
    for (Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
        Entry e = (Entry)i.next();
        VALUE_TYPE
incr = genValue();
        ((AVL_TREE_MAP) m).addTo( e.key, incr );
        t.put( e.key, (VALUE_TYPE) ((VALUE_CLASS) t.get(e.key) + incr) );
    }
    compareMT( m, t, level, seed );

/* Now we make sure that addTo works with a key that did not previously exist (with special default return value) */
KEY_TYPE newKey;

do {
    newKey = genKey();
} while (m.containsKey(newKey));

VALUE_TYPE newValue, drv;
drv = m.defaultReturnValue();
newValue = genValue();
m.defaultReturnValue( genValue() );

((AVL_TREE_MAP) m).addTo( newKey, newValue );
t.put( newKey, (VALUE_TYPE) (newValue + m.defaultReturnValue()) );

compareMT( m, t, level, seed );
m.defaultReturnValue(drv); // set the default value back to the old drv
}
#endif

/* Now we check that both maps agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.firstKey();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true;
}

try {
    t.firstKey();
}

```

```

    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence in
    NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + " )");
    if ( ! mThrowsNoElement ) ensure( t.firstKey().equals( m.firstKey() ), "Error (" + level + ", " + seed + "): m and t
    differ on their first key (" + m.firstKey() + ", " + t.firstKey() + " )");

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.lastKey();
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    try {
        t.lastKey();
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence in
    NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + " )");

    if ( ! mThrowsNoElement ) ensure( t.lastKey().equals(
    m.lastKey() ), "Error (" + level + ", " + seed + "): m and t differ on their last key (" + m.lastKey() + ", " + t.lastKey()
    + " )");

    /* Now we check cloning. */

    if ( level == 0 ) {
        ensure( m.equals( ((AVL_TREE_MAP)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal m.clone()"
        );
        ensure( ((AVL_TREE_MAP)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m"
        );
    }

    int h = m.hashCode();

    /* Now we save and read m. */

    SORTED_MAP m2 = null;

    try {
        java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
        java.io.OutputStream os = new java.io.FileOutputStream(ff);
        java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

        oos.writeObject(m);

```

```

oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SORTED_MAP)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception
e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if !#valueclass(Reference)
ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
#else
m2.clear();
m2.putAll( m );
#endif

/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.keySet().iterator(); i.hasNext(); ) m2.remove(i.next());

ensure( m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)" );

/* Now we play with iterators. */

{
    java.util.ListIterator i, j;
    Map.Entry E, F;
    Object J;
    i = (java.util.ListIterator)m.entrySet().iterator();
    j = new java.util.LinkedList( t.entrySet() ).listIterator();

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()" );
        ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

        if ( r.nextFloat() < .8 && i.hasNext() ) {

```

```

    ensure( (E=(Entry)i.next()).getKey().equals( J = (F=(Map.Entry)j.next()).getKey() ), "Error (" + level + ", " + seed +
"): divergence in next()" );

    if ( r.nextFloat() < 0.3 ) {
        i.remove();
        j.remove();
        t.remove( J );
    }
    else if ( r.nextFloat() < 0.3 ) {
        Object U = VALUE2OBJ(genValue());
        E.setValue( U );
        t.put( F.getKey(), U );
    }
    }
    else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure( (E=(Entry)i.previous()).getKey().equals( J = (F=(Map.Entry)j.previous()).getKey() ), "Error (" + level + ", "
+ seed + "): divergence in previous()" );

        if ( r.nextFloat() < 0.3 ) {
            i.remove();
            j.remove();
            t.remove(
J );
        }
        else if ( r.nextFloat() < 0.3 ) {
            Object U = VALUE2OBJ(genValue());
            E.setValue( U );
            t.put( F.getKey(), U );
        }
    }

    ensure( i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()" );
    ensure( i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()" );

}

}

{
    boolean badPrevious = false;
    Object previous = null;
    it.unimi.dsi.fastutil.BidirectionalIterator i;
    java.util.ListIterator j;
    Object I, J;
    KEY_TYPE from = genKey();
    j = new java.util.LinkedList( t.keySet() ).listIterator();
    while( j.hasNext() ) {

```

```

Object k = j.next();
if ( ((Comparable)k).compareTo( KEY2OBJ( from ) ) > 0 ) {
    badPrevious = true;
    j.previous();
    break;
}
previous = k;
}

i = (it.unimi.dsi.fastutil.BidirectionalIterator)((SORTED_SET)m.keySet()).iterator(
from );

for( int k = 0; k < 2*n; k++ ) {
    ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")" );
    ensure( i.hasPrevious() == j.hasPrevious() || badPrevious && ( i.hasPrevious() == ( previous != null ) ), "Error (" +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" + badPrevious );

    if ( r.nextFloat() < .8 && i.hasNext() ) {
        ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")" );
        //System.err.println("Done next " + I + " " + J + " " + badPrevious);

        badPrevious = false;

        if ( r.nextFloat() < 0.5 ) {
            //System.err.println("Removing in next");
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
    else if ( !badPrevious && r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure(
( I = i.previous() ).equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous() (" + I + ", "
+ J + ", iterator with starting point " + from + ")" );

        if ( r.nextFloat() < 0.5 ) {
            //System.err.println("Removing in prev");
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
}
}

```

```

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a submap. */

if ( ! m.isEmpty() ) {
    java.util.ListIterator i;
    Object start = m.firstKey(), end = m.firstKey();
    for( i = (java.util.ListIterator)m.keySet().iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next() );
    for( ; i.hasNext() && r.nextFloat() < .95; end = i.next() );

    //System.err.println("Checking subMap
    from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.subMap( (KEY_CLASS)start, (KEY_CLASS)end ), t.subMap( start, end ), n, level +
    1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after subMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subMap" );

    //System.err.println("Checking headMap to " + end + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.headMap( (KEY_CLASS)end ), t.headMap( end ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after headMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after headMap" );

    //System.err.println("Checking tailMap from " + start + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.tailMap( (KEY_CLASS)start ), t.tailMap( start ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(
    t ) after tailMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after tailMap" );
    }

}

private static void test( int n ) {
    AVL_TREE_MAP m = new AVL_TREE_MAP();
    SortedMap t = new java.util.TreeMap();
    topMap = m;
    k = new Object[n];
    v = new Object[n];
    nk = new Object[n];
    kt = new KEY_TYPE[n];
    nkt = new KEY_TYPE[n];

```

```

vt = new VALUE_TYPE[n];

for( int i = 0; i < n; i++ ) {
#if #keyclass(Object)
    k[i] = kt[i] = genKey();
    nk[i] = nkt[i] = genKey();
#else
    k[i] = new KEY_CLASS( kt[i] = genKey() );
    nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
#if #values(reference)
    v[i] = vt[i] = genValue();
#else
    v[i] = new VALUE_CLASS( vt[i] = genValue() );
#endif
}

/* We add pairs to t. */
for( int i = 0; i < n; i++ ) t.put( k[i], v[i] );

/* We add to m the same data */
m.putAll(t);

testMaps( m, t, n, 0 );

System.out.println("Test OK");
return;
}

public static void main( String args[]
) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AVLTreeMap.drv

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/*

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*/

package PACKAGE;

#if #keyclass(Object)

import java.util.Comparator;

#endif

import java.util.Arrays;

/** A class providing static methods and objects that do useful things with indirect heaps.

*

* <P>An indirect heap is an extension of a semi-indirect heap using also an

* inversion array

of the same length as the reference array,

* satisfying the relation `heap[inv[i]]==i` when

* `inv[i]>=0`, and `inv[heap[i]]==i` for all elements in the heap.

*/

public class INDIRECT_HEAPS {

private INDIRECT_HEAPS() {}

/** Moves the given element down into the indirect heap until it reaches the lowest possible position.

*

* @param refArray the reference array.

* @param heap the indirect heap (starting at 0).

* @param inv the inversion array.

```

* @param size the number of elements in the heap.
* @param i the index in the heap of the element to be moved down.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
* @return the new position in the heap of the element of heap index <code>i</code>.
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static KEY_GENERIC int downHeap( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int[]
inv, final int size, int i, final KEY_COMPARATOR KEY_GENERIC
c ) {

```

```

    assert i < size;

```

```

    final int e = heap[ i ];

```

```

    final KEY_GENERIC_TYPE E = refArray[ e ];

```

```

    int child;

```

```

    if ( c == null )

```

```

        while ( ( child = ( i << 1 ) + 1 ) < size ) {

```

```

            int t = heap[ child ];

```

```

            final int right = child + 1;

```

```

            if ( right < size && KEY_LESS( refArray[ heap[ right ] ], refArray[ t ] ) ) t = heap[ child = right ];

```

```

            if ( KEY_LESSEQ( E, refArray[ t ] ) ) break;

```

```

            heap[ i ] = t;

```

```

            inv[ heap[ i ] ] = i;

```

```

            i = child;

```

```

        }

```

```

    else

```

```

        while ( ( child = ( i << 1 ) + 1 ) < size ) {

```

```

            int t = heap[ child ];

```

```

            final int right = child + 1;

```

```

            if ( right < size && c.compare( refArray[ heap[ right ] ], refArray[ t ] ) < 0 ) t = heap[ child = right ];

```

```

            if ( c.compare( E, refArray[ t ] ) <= 0 ) break;

```

```

            heap[ i ] = t;

```

```

            inv[ heap[ i ] ] = i;

```

```

            i = child;

```

```

        }

```

```

    heap[ i ] = e;

```

```

    inv[ e ] = i;

```

```

    return i;

```

```

}

```

```

/** Moves the given element up in the indirect heap until it reaches the highest possible position.

```

```

*

```

```

* Note that in principle after this

```

```

call the heap property may be violated.

```

```

*

```

```

* @param refArray the reference array.

```

```

* @param heap the indirect heap (starting at 0).
* @param inv the inversion array.
* @param size the number of elements in the heap.
* @param i the index in the heap of the element to be moved up.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
* @return the new position in the heap of the element of heap index <code>i</code>.
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static KEY_GENERIC int upHeap( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int[] inv,
final int size, int i, final KEY_COMPARATOR KEY_GENERIC c ) {
    assert i < size;

```

```

    final int e = heap[ i ];
    final KEY_GENERIC_TYPE E = refArray[ e ];

```

```

    if ( c == null )
        while ( i != 0 ) {
            final int parent = ( i - 1 ) >>> 1;
            final int t = heap[ parent ];
            if ( KEY_LESSEQ( refArray[ t ], E ) ) break;
            heap[ i ] = t;
            inv[ heap[ i ] ] = i;
            i = parent;
        }

```

```

    else
        while
    ( i != 0 ) {
        final int parent = ( i - 1 ) >>> 1;
        final int t = heap[ parent ];
        if ( c.compare( refArray[ t ], E ) <= 0 ) break;
        heap[ i ] = t;
        inv[ heap[ i ] ] = i;
        i = parent;
    }

```

```

    heap[ i ] = e;
    inv[ e ] = i;

```

```

    return i;
}

```

```

/** Creates an indirect heap in the given array.

```

```

*
* @param refArray the reference array.
* @param offset the first element of the reference array to be put in the heap.
* @param length the number of elements to be put in the heap.
* @param heap the array where the heap is to be created.

```

```

* @param inv the inversion array.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
*/

public static KEY_GENERIC void makeHeap( final KEY_GENERIC_TYPE[] refArray, final int offset, final int
length, final int[] heap, final int[] inv, final KEY_COMPARATOR KEY_GENERIC c ) {
    ARRAYS.ensureOffsetLength( refArray, offset, length );
    if ( heap.length < length ) throw new IllegalArgumentException(
"The heap length ( " + heap.length + " ) is smaller than the number of elements ( " + length + " ) );
    if ( inv.length < refArray.length ) throw new IllegalArgumentException( "The inversion array length ( " +
heap.length + " ) is smaller than the length of the reference array ( " + refArray.length + " ) );

    Arrays.fill( inv, 0, refArray.length, -1 );

    int i = length;
    while( i-- != 0 ) inv[ heap[ i ] = offset + i ] = i;

    i = length >>> 1;
    while( i-- != 0 ) downHeap( refArray, heap, inv, length, i, c );
}

/** Creates an indirect heap from a given index array.
*
* @param refArray the reference array.
* @param heap an array containing indices into <code>refArray</code>.
* @param inv the inversion array.
* @param size the number of elements in the heap.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
*/

public static KEY_GENERIC void makeHeap( final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int[]
inv, final int size,
final KEY_COMPARATOR KEY_GENERIC c ) {
    int i = size >>> 1;
    while( i-- != 0 ) downHeap( refArray, heap, inv, size, i, c );
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/IndirectHeaps.drv

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```

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* limitations under the License.
*/

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;  
import it.unimi.dsi.fastutil.objects.ObjectSortedSets;
```

```
import java.util.Comparator;  
import java.util.Map;  
import java.util.SortedMap;  
import java.util.NoSuchElementException;
```

```
/** A class providing static methods and objects that do useful things  
with type-specific sorted maps.  
*  
* @see java.util.Collections  
*/
```

```
public class SORTED_MAPS {
```

```
    private SORTED_MAPS() {}
```

```
    /** Returns a comparator for entries based on a given comparator on keys.  
    *  
    * @param comparator a comparator on keys.  
    * @return the associated comparator on entries.  
    */
```

```
    public static KEY_GENERIC Comparator<? super Map.Entry<KEY_GENERIC_CLASS, ?>> entryComparator(  
        final KEY_COMPARATOR KEY_GENERIC comparator ) {  
        return new Comparator<Map.Entry<KEY_GENERIC_CLASS, ?>>() {  
            public int compare( Map.Entry<KEY_GENERIC_CLASS, ?> x, Map.Entry<KEY_GENERIC_CLASS, ?> y ) {  
                return comparator.compare( x.getKey(), y.getKey() );  
            }  
        };  
    }  
}
```

```
/** An immutable class representing an empty type-specific sorted map.
```

```

*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific sorted map.
*/

public static class EmptySortedMap KEY_VALUE_GENERIC extends MAPS.EmptyMap
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC,
java.io.Serializable, Cloneable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected EmptySortedMap() {}

    public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

    @SuppressWarnings("unchecked")
    public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { return
ObjectSortedSets.EMPTY_SET; }
    @SuppressWarnings("unchecked")
    public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
ObjectSortedSets.EMPTY_SET; }

    SUPPRESS_WARNINGS_KEY_UNCHECKED
    public SORTED_SET KEY_GENERIC keySet() { return SORTED_SETS.EMPTY_SET; }

    SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
    public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to ) { return EMPTY_MAP; }

    SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
    public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_TYPE to ) { return
EMPTY_MAP; }

    SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
    public SORTED_MAP KEY_VALUE_GENERIC
tailMap( final KEY_GENERIC_TYPE from ) { return EMPTY_MAP; }

    public KEY_GENERIC_TYPE FIRST_KEY() { throw new NoSuchElementException(); }
    public KEY_GENERIC_TYPE LAST_KEY() { throw new NoSuchElementException(); }

    #if #keys(primitive)
    /** {@inheritDoc}
    * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    public SORTED_MAP KEY_VALUE_GENERIC headMap( KEY_GENERIC_CLASS oto ) { return headMap(
KEY_CLASS2TYPE( oto ) ); }
    /** {@inheritDoc}
    * @deprecated Please use the corresponding type-specific method instead. */

```

```

@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC tailMap( KEY_GENERIC_CLASS ofrom ) { return tailMap(
KEY_CLASS2TYPE( ofrom ) ); }
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_CLASS ofrom,
KEY_GENERIC_CLASS oto ) { return subMap( KEY_CLASS2TYPE( ofrom ), KEY_CLASS2TYPE( oto ) ); }

/**
{ @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS firstKey() { return KEY2OBJ( FIRST_KEY() ); }
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS lastKey() { return KEY2OBJ( LAST_KEY() ); }
#endif

}

```

```

/** An empty type-specific sorted map (immutable). It is serializable and cloneable. */

```

```

SUPPRESS_WARNINGS_KEY_VALUE_RAWTYPES

```

```

public static final EmptySortedMap EMPTY_MAP = new EmptySortedMap();

```

```

/** An immutable class representing a type-specific singleton sorted map.

```

```

*

```

```

* <P>This class may be useful to implement your own in case you subclass

```

```

* a type-specific sorted map.

```

```

*/

```

```

public static class Singleton KEY_VALUE_GENERIC extends MAPS.Singleton KEY_VALUE_GENERIC
implements SORTED_MAP KEY_VALUE_GENERIC, java.io.Serializable, Cloneable {

```

```

private static final long serialVersionUID = -7046029254386353129L;

```

```

protected

```

```

final KEY_COMPARATOR KEY_SUPER_GENERIC comparator;

```

```

protected Singleton( final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value,
KEY_COMPARATOR KEY_SUPER_GENERIC comparator ) {

```

```

super( key, value );

```

```

this.comparator = comparator;

```

```

}

protected Singleton( final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value ) {
    this( key, value, null );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
final int compare( final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2 ) {
    return comparator == null ? KEY_CMP( k1, k2 ) : comparator.compare( k1, k2 );
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return comparator; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if ( entries == null ) entries =
ObjectSortedSets.singleton( (MAP.Entry KEY_VALUE_GENERIC)new SingletonEntry(), (Comparator<? super
MAP.Entry KEY_VALUE_GENERIC>)entryComparator( comparator ) ); return (ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>)entries;
}
@SuppressWarnings({ "rawtypes", "unchecked" })
public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSortedSet)ENTRYSET(); }

public SORTED_SET KEY_GENERIC keySet() { if ( keys == null ) keys = SORTED_SETS.singleton( key,
comparator ); return (SORTED_SET KEY_GENERIC)keys; }

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to ) { if ( compare( from, key ) <= 0 && compare( key, to ) < 0 ) return this; return
EMPTY_MAP; }

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_TYPE to ) { if ( compare( key,
to ) < 0 ) return this; return EMPTY_MAP; }

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_TYPE from ) { if ( compare(
from, key ) <= 0 ) return this; return EMPTY_MAP; }

public KEY_GENERIC_TYPE FIRST_KEY() {
return key; }
public KEY_GENERIC_TYPE LAST_KEY() { return key; }

#if #keys(primitive)
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC headMap( KEY_GENERIC_CLASS oto ) { return headMap(

```

```

KEY_CLASS2TYPE( oto ) ); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC tailMap( KEY_GENERIC_CLASS ofrom ) { return tailMap(
KEY_CLASS2TYPE( ofrom ) ); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_CLASS ofrom,
KEY_GENERIC_CLASS oto ) { return subMap( KEY_CLASS2TYPE( ofrom ), KEY_CLASS2TYPE( oto ) ); }

/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS firstKey() { return KEY2OBJ( FIRST_KEY()
); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS lastKey() { return KEY2OBJ( LAST_KEY() ); }
#endif
}

/** Returns a type-specific immutable sorted map containing only the specified pair. The returned sorted map is
serializable and cloneable.
 *
 * <P>Note that albeit the returned map is immutable, its default return value may be changed.
 *
 * @param key the only key of the returned sorted map.
 * @param value the only value of the returned sorted map.
 * @return a type-specific immutable sorted map containing just the pair <code>&lt;key,value&gt;</code>.
 */

public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton( final
KEY_GENERIC_CLASS key, VALUE_GENERIC_CLASS value ) {
return new Singleton KEY_VALUE_GENERIC( KEY_CLASS2TYPE( key ), VALUE_CLASS2TYPE( value ) );
}

/** RETURNS a type-specific immutable sorted map containing only the specified pair.
The returned sorted map is serializable and cloneable.
 *
 * <P>Note that albeit the returned map is immutable, its default return value may be changed.
 *
 * @param key the only key of the returned sorted map.
 * @param value the only value of the returned sorted map.
 * @param comparator the comparator to use in the returned sorted map.
 * @return a type-specific immutable sorted map containing just the pair <code>&lt;key,value&gt;</code>.

```

```

*/

public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton( final
KEY_GENERIC_CLASS key, VALUE_GENERIC_CLASS value, KEY_COMPARATOR
KEY_SUPER_GENERIC comparator ) {
    return new Singleton KEY_VALUE_GENERIC( KEY_CLASS2TYPE( key ), VALUE_CLASS2TYPE( value ),
comparator );
}

#if #keys(primitive) || #values(primitive)

/** Returns a type-specific immutable sorted map containing only the specified pair. The returned sorted map is
serializable and cloneable.
*
* <P>Note that albeit the returned map is immutable, its default
return value may be changed.
*
* @param key the only key of the returned sorted map.
* @param value the only value of the returned sorted map.
* @return a type-specific immutable sorted map containing just the pair <code>&lt;key,value&gt;</code>.
*/

public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton( final
KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value ) {
    return new Singleton KEY_VALUE_GENERIC( key, value );
}

/** Returns a type-specific immutable sorted map containing only the specified pair. The returned sorted map is
serializable and cloneable.
*
* <P>Note that albeit the returned map is immutable, its default return value may be changed.
*
* @param key the only key of the returned sorted map.
* @param value the only value of the returned sorted map.
* @param comparator the comparator to use in the returned sorted map.
* @return a type-specific immutable sorted map containing just the pair <code>&lt;key,value&gt;</code>.
*/

public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton( final
KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value, KEY_COMPARATOR
KEY_SUPER_GENERIC comparator ) {
    return new Singleton KEY_VALUE_GENERIC( key, value, comparator );
}

#endif

```

```
/** A synchronized wrapper class for sorted maps. */
```

```
public static class SynchronizedSortedMap KEY_VALUE_GENERIC extends MAPS.SynchronizedMap  
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC, java.io.Serializable {  
  
    private static final long serialVersionUID = -7046029254386353129L;  
  
    protected final SORTED_MAP KEY_VALUE_GENERIC sortedMap;  
  
    protected SynchronizedSortedMap( final SORTED_MAP KEY_VALUE_GENERIC m, final Object sync ) {  
        super( m, sync );  
        sortedMap = m;  
    }  
  
    protected SynchronizedSortedMap( final SORTED_MAP KEY_VALUE_GENERIC m ) {  
        super( m );  
        sortedMap = m;  
    }  
  
    public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { synchronized( sync ) { return  
sortedMap.comparator(); } }  
  
    public  
ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if ( entries == null ) entries =  
ObjectSortedSets.synchronize( sortedMap.ENTRYSET(), sync ); return (ObjectSortedSet<MAP.Entry  
KEY_VALUE_GENERIC>)entries; }  
    @SuppressWarnings({ "rawtypes", "unchecked" })  
    public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return  
(ObjectSortedSet)ENTRYSET(); }  
    public SORTED_SET KEY_GENERIC keySet() { if ( keys == null ) keys = SORTED_SETS.synchronize(  
sortedMap.keySet(), sync ); return (SORTED_SET KEY_GENERIC)keys; }  
  
    public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_TYPE from, final  
KEY_GENERIC_TYPE to ) { return new SynchronizedSortedMap KEY_VALUE_GENERIC( sortedMap.subMap(  
from, to ), sync ); }  
    public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_TYPE to ) { return new  
SynchronizedSortedMap KEY_VALUE_GENERIC( sortedMap.headMap( to ), sync ); }  
    public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_TYPE from ) { return  
new SynchronizedSortedMap KEY_VALUE_GENERIC( sortedMap.tailMap( from ), sync ); }  
  
    public KEY_GENERIC_TYPE FIRST_KEY() { synchronized( sync ) { return sortedMap.FIRST_KEY(); } }  
    public KEY_GENERIC_TYPE LAST_KEY() { synchronized( sync ) { return sortedMap.LAST_KEY(); } }  
  
    #if #keys(primitive)  
    public KEY_GENERIC_CLASS firstKey() { synchronized( sync ) { return sortedMap.firstKey(); } }  
    public KEY_GENERIC_CLASS lastKey() { synchronized( sync ) { return sortedMap.lastKey(); } }  
  
    public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_CLASS from, final
```

```

KEY_GENERIC_CLASS to ) { return new SynchronizedSortedMap KEY_VALUE_GENERIC(
sortedMap.subMap( from, to ), sync ); }
    public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_CLASS to ) { return new
SynchronizedSortedMap KEY_VALUE_GENERIC( sortedMap.headMap( to ), sync ); }
    public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_CLASS from ) { return new
SynchronizedSortedMap KEY_VALUE_GENERIC( sortedMap.tailMap(
from ), sync ); }
#endif

}

/** Returns a synchronized type-specific sorted map backed by the given type-specific sorted map.
 *
 * @param m the sorted map to be wrapped in a synchronized sorted map.
 * @return a synchronized view of the specified sorted map.
 * @see java.util.Collections#synchronizedSortedMap(SortedMap)
 */
public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC synchronize( final
SORTED_MAP KEY_VALUE_GENERIC m ) { return new SynchronizedSortedMap KEY_VALUE_GENERIC(
m ); }

/** Returns a synchronized type-specific sorted map backed by the given type-specific sorted map, using an
assigned object to synchronize.
 *
 * @param m the sorted map to be wrapped in a synchronized sorted map.
 * @param sync an object that will be used to synchronize the access to the sorted sorted map.
 * @return a synchronized view of the specified sorted map.
 * @see java.util.Collections#synchronizedSortedMap(SortedMap)
 */

public static KEY_VALUE_GENERIC SORTED_MAP
KEY_VALUE_GENERIC synchronize( final SORTED_MAP KEY_VALUE_GENERIC m, final Object sync ) {
return new SynchronizedSortedMap KEY_VALUE_GENERIC( m, sync ); }

/** An unmodifiable wrapper class for sorted maps. */

public static class UnmodifiableSortedMap KEY_VALUE_GENERIC extends MAPS.UnmodifiableMap
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final SORTED_MAP KEY_VALUE_GENERIC sortedMap;

    protected UnmodifiableSortedMap( final SORTED_MAP KEY_VALUE_GENERIC m ) {

```

```

    super( m );
    sortedMap = m;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return sortedMap.comparator(); }

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if ( entries == null ) entries =
ObjectSortedSets.unmodifiable( sortedMap.ENTRYSET() ); return (ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>)entries; }
    @SuppressWarnings({ "rawtypes", "unchecked" })
    public
    ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSortedSet)ENTRYSET(); }
    public SORTED_SET KEY_GENERIC keySet() { if ( keys == null ) keys = SORTED_SETS.unmodifiable(
sortedMap.keySet() ); return (SORTED_SET KEY_GENERIC)keys; }

    public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to ) { return new UnmodifiableSortedMap KEY_VALUE_GENERIC( sortedMap.subMap(
from, to ) ); }
    public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_TYPE to ) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC( sortedMap.headMap( to ) ); }
    public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_TYPE from ) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC( sortedMap.tailMap( from ) ); }

    public KEY_GENERIC_TYPE FIRST_KEY() { return sortedMap.FIRST_KEY(); }
    public KEY_GENERIC_TYPE LAST_KEY() { return sortedMap.LAST_KEY(); }

#if #keys(primitive)
    public KEY_GENERIC_CLASS firstKey()
    { return sortedMap.firstKey(); }
    public KEY_GENERIC_CLASS lastKey() { return sortedMap.lastKey(); }

    public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to ) { return new UnmodifiableSortedMap KEY_VALUE_GENERIC(
sortedMap.subMap( from, to ) ); }
    public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_CLASS to ) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC( sortedMap.headMap( to ) ); }
    public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_CLASS from ) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC( sortedMap.tailMap( from ) ); }
#endif

}

/** Returns an unmodifiable type-specific sorted map backed by the given type-specific sorted map.
 *
 * @param m the sorted map to be wrapped in an unmodifiable sorted map.
 * @return an unmodifiable view of the specified sorted map.

```

```

* @see java.util.Collections#unmodifiableSortedMap(SortedMap)
*/
public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC
unmodifiable( final SORTED_MAP KEY_VALUE_GENERIC m ) { return new UnmodifiableSortedMap
KEY_VALUE_GENERIC( m ); }

#if defined(TEST) && ! #keyclass(Reference)

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#else
return Integer.toBinaryString( r.nextInt() );
#endif
}

private static VALUE_TYPE genValue() {
#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
return (VALUE_TYPE)(r.nextInt());
#elif #values(primitive)
return r.NEXT_VALUE();
#elif !#valueclass(Reference) || #keyclass(Reference)
return Integer.toBinaryString( r.nextInt() );
#else
return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static
java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
StringBuffer s = new StringBuffer();
return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
System.out.println( "There are presently no speed tests for this class." );
}

```

```

private static boolean valEquals(Object o1, Object o2) {
    return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static VALUE_TYPE vt[];
private static SORTED_MAP topMap;

protected static void testMaps( SORTED_MAP m, SortedMap t, int n, int level ) {
    long ms;
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsUnsupp,
tThrowsUnsupp;
    Object
rt = null, rm = null;

    if ( level > 1 ) return;

    /* Now we check that both maps agree on first/last keys. */

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.firstKey();
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    try {
        t.firstKey();
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence at
start in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + " )");
    if ( ! mThrowsNoElement ) ensure( t.firstKey().equals( m.firstKey() ), "Error (" + level + ", " + seed + "): m and t

```

```
differ at start on their first key (" + m.firstKey() + ", " + t.firstKey() + "));
```

```
mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;
```

```
try {
    m.lastKey();
}
catch ( java.util.NoSuchElementException
e ) { mThrowsNoElement = true; }
try {
    t.lastKey();
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
```

```
ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence at
start in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + "));
```

```
if ( ! mThrowsNoElement ) ensure( t.lastKey().equals( m.lastKey() ), "Error (" + level + ", " + seed + "): m and t
differ at start on their last key (" + m.lastKey() + ", " + t.lastKey() + "));
```

```
/* Now we check that m and t are equal. */
```

```
if ( !m.equals( t ) || ! t.equals( m ) ) System.err.println("m: " + m + " t: " + t);
```

```
ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
```

```
ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );
```

```
/* Now we check that m actually holds that data. */
```

```
for(java.util.Iterator i=t.entrySet().iterator(); i.hasNext();
```

```
) {
```

```
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
```

```
    ensure( valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on t)" );
```

```
}
```

```
/* Now we check that m actually holds that data, but iterating on m. */
```

```
for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
```

```
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
```

```
    ensure( valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on m)" );
```

```
}
```

```
/* Now we check that m actually holds the same keys. */
```

```
for(java.util.Iterator i=t.keySet().iterator(); i.hasNext(); ) {
```

```
    Object o = i.next();
```

```

    ensure( m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ") after insertion
(iterating on t)" );
    ensure( m.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ", in
keySet()) after insertion (iterating on t)" );
}

/* Now we check that m actually holds the same keys, but iterating on m. */
for(java.util.Iterator i=m.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after insertion (iterating on m)"
);
    ensure( t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after insertion
(iterating on m)" );
}

/* Now we check that m actually hold the same values. */
for(java.util.Iterator i=t.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
t)" );
    ensure( m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on t)" );
}

/* Now we check that m actually hold the same values,
but iterating on m. */
for(java.util.Iterator i=m.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
m)" );
    ensure( t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on m)" );
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.containsKey(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
}

```

```

try {
    t.containsKey(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException
e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): containsKey() divergence
in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): containsKey() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) {
        ensure( m.containsKey(KEY2OBJ(T)) == t.containsKey(KEY2OBJ(T)), "Error (" + level + ", " + seed + "):
divergence in keys between t and m (polymorphic method)" );

#if #keyclass(Object) && ! ( #values(reference) )
    if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
        t.get(KEY2OBJ(T)) != null &&
        ! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
    if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T))
== null ? VALUE_NULL : VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
        t.get(KEY2OBJ(T)) != null &&
        ! m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
    {
        System.out.println("Error (" + level + ", " + seed + "): divergence between t and m (polymorphic method)");
        System.exit( 1 );
    }
}
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.get(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

```

```

try {
    t.get(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

ensure(
mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): get() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): get() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T))),
"Error (" + level + ", " + seed + "): divergence between t and m (standard method)");
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();
    VALUE_TYPE U = genValue();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = mThrowsUnsupp =
tThrowsUnsupp = false;

    try {
        rm = m.put(KEY2OBJ(T), VALUE2OBJ(U));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement
= true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.put(KEY2OBJ(T), VALUE2OBJ(U));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): put() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): put() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): put() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp
+ ", " + tThrowsUnsupp + ") " + m);
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsUnsupp ) ensure( valEquals( rm, rt ), "Error (" + level
+ ", " + seed + "): divergence in put() between t and m (" + rt + ", " + rm + ")");
}

```

```

T = genKey();

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = mThrowsUnsupp =
tThrowsUnsupp = false;

try {
    rm = m.remove(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    rt = t.remove(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence
in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + " )");
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + " )");
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + " ) + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsUnsupp ) ensure( valEquals( rm, rt ), "Error (" + level
+ ", " + seed + "): divergence in remove() between t and m (" + rt + ", " + rm + " )");
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal" );

/* Now we check that m actually holds the same data. */

for(java.util.Iterator i=t.entrySet().iterator();
i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    ensure( valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
    java.util.Map.Entry e = (java.util.Map.Entry)i.next();
    ensure( valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry

```

```

("+e+") after removal (iterating on m)" );
    }

    /* Now we check that m actually holds the same keys. */

    for(java.util.Iterator i=t.keySet().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+" after removal
(iterating on t)");
        ensure( m.keySet().contains(o), "Error (" + level + ", " + seed +
"): m and t differ on a key (" +o+", in keySet()) after removal (iterating on t)");
    }

    /* Now we check that m actually holds the same keys, but iterating on m. */

    for(java.util.Iterator i=m.keySet().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after removal (iterating on m)");
        ensure( t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after removal
(iterating on m)");
    }

    /* Now we check that m actually hold the same values. */

    for(java.util.Iterator i=t.values().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
t)");
        ensure( m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on t)");
    }

    /* Now we check that
m actually hold the same values, but iterating on m. */

    for(java.util.Iterator i=m.values().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
m)");
        ensure( t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on m)");
    }

    /* Now we check that both maps agree on first/last keys. */

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
    m.firstKey();
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.firstKey();
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence in
java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
if
( ! mThrowsNoElement ) ensure( t.firstKey().equals( m.firstKey() ), "Error (" + level + ", " + seed + "): m and t
differ on their first key (" + m.firstKey() + ", " + t.firstKey() + ")" );

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.lastKey();
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.lastKey();
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence in
java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

if ( ! mThrowsNoElement ) ensure( t.lastKey().equals( m.lastKey() ), "Error (" + level + ", " + seed + "): m and t
differ on their last key (" + m.lastKey() + ", " + t.lastKey() + ")" );

/* Now we check cloning. */

if ( level == 0 ) {
    ensure( m.equals( ((Singleton)m).clone() ), "Error (" + level
+ ", " + seed + "): m does not equal m.clone()" );
    ensure( ((Singleton)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m" );
    m = (SORTED_MAP)((Singleton)m).clone();
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_MAP m2 = null;

```

```

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();

    java.io.InputStream is = new java.io.FileInputStream(ff);
    java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m2 = (SORTED_MAP)ois.readObject();
    ois.close();
    ff.delete();
}
catch(Exception e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if !#valueclass(Reference)
    ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

    /* Now we
check that m2 actually holds that data. */

    ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
    ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
    /* Now we take out of m everything, and check that it is empty. */
#endif

    /* Now we play with iterators. */

    {
        java.util.ListIterator i, j;
        Object J;
        i = (java.util.ListIterator)m.entrySet().iterator();
        j = new java.util.LinkedList( t.entrySet() ).listIterator();

        for( int k = 0; k < 2*n; k++ ) {
            ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()" );
            ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

            if ( r.nextFloat() < .8 && i.hasNext() ) {
                ensure( ((java.util.Map.Entry)i.next()).getKey().equals( J = ((Map.Entry)j.next()).getKey() ), "Error (" + level + ", "
+ seed + "): divergence in next()"
            );
        }
    }

```

```

    }
    else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure( ((java.util.Map.Entry)i.previous()).getKey().equals( J = ((Map.Entry)j.previous()).getKey() ), "Error (" +
level + ", " + seed + "): divergence in previous()" );

    }

    ensure( i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()" );
    ensure( i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()" );

}
}

{
    boolean badPrevious = false;
    Object previous = null;
    it.unimi.dsi.fastutil.BidirectionalIterator i;
    java.util.ListIterator j;
    Object I, J;
    KEY_TYPE from = genKey();
    j = new java.util.LinkedList( t.keySet() ).listIterator();
    while( j.hasNext() ) {
        Object k = j.next();
        if ( ((Comparable)k).compareTo( KEY2OBJ( from ) ) > 0 ) {
            badPrevious = true;
            j.previous();
            break;
        }
        previous = k;
    }

    i = (it.unimi.dsi.fastutil.BidirectionalIterator)((SORTED_SET)m.keySet()).iterator(
from );

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")" );
        ensure( i.hasPrevious() == j.hasPrevious() || badPrevious && ( i.hasPrevious() == ( previous != null ) ), "Error (" +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" + badPrevious );

        if ( r.nextFloat() < .8 && i.hasNext() ) {
            ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")" );
            //System.err.println("Done next " + I + " " + J + " " + badPrevious);

            badPrevious = false;

            if ( r.nextFloat() < 0.5 ) {

```

```

    }
    }
    else if ( !badPrevious && r.nextFloat() < .2 && i.hasPrevious() ) {
        ensure( ( I = i.previous() ).equals( J = j.previous() ), "Error (" +
level + ", " + seed + "): divergence in previous() (" + I + ", " + J + ", iterator with starting point " + from + " )" );

        if ( r.nextFloat() < 0.5 ) {
            }
            }
            }

        }

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a submap. */

if ( ! m.isEmpty() ) {
    java.util.ListIterator i;
    Object start = m.firstKey(), end = m.firstKey();
    for( i = (java.util.ListIterator)m.keySet().iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next() );
    for( ; i.hasNext() && r.nextFloat() < .95; end = i.next() );

    //System.err.println("Checking subMap from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.subMap( (KEY_CLASS)start, (KEY_CLASS)end ), t.subMap( start, end ), n, level
+ 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after subMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subMap" );

    //System.err.println("Checking headMap to " + end + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.headMap( (KEY_CLASS)end ), t.headMap( end ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after headMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after headMap" );

    //System.err.println("Checking tailMap from " + start + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.tailMap( (KEY_CLASS)start ), t.tailMap( start ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after tailMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after tailMap" );
}

}

```

```

private static void test() {
    int
n = 1;
k = new Object[n];
v = new Object[n];
nk = new Object[n];
kt = new KEY_TYPE[n];
nkt = new KEY_TYPE[n];
vt = new VALUE_TYPE[n];

    for( int i = 0; i < n; i++ ) {
#if #keyclass(Object)
        k[i] = kt[i] = genKey();
        nk[i] = nkt[i] = genKey();
#else
        k[i] = new KEY_CLASS( kt[i] = genKey() );
        nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
#if #values(reference)
        v[i] = vt[i] = genValue();
#else
        v[i] = new VALUE_CLASS( vt[i] = genValue() );
#endif
    }

    SORTED_MAP m = new Singleton( kt[0], vt[0] );
    topMap = m;
    SortedMap t1 = new java.util.TreeMap();
    t1.put( k[0], v[0] );
    SortedMap t = java.util.Collections.unmodifiableSortedMap( t1 );

    testMaps( m, t, n, 0 );

    System.out.println("Test OK");
    return;
}

public static void main( String args[] ) {
    if ( args.length > 1 ) r = new java.util.Random( seed = Long.parseLong( args[ 1 ] ) );

    try {
        test();
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
    }
}

```

```
System.err.println(
"seed: " + seed );
}
}
```

```
#endif
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedMaps.drv
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
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```

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```

```
*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
import java.util.Comparator;
```

```
import java.util.Iterator;
```

```
import java.util.SortedSet;
```

```
import java.util.NoSuchElementException;
```

```
/** A type-specific red-black tree set with a fast, small-footprint implementation.
```

```
*
```

```
* <P>The iterators provided by this class are type-specific
```

```
{ @link
```

```
* it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
```

```
* Moreover, the iterator returned by iterator() can be safely cast
```

```
* to a type-specific { @linkplain java.util.ListIterator list iterator}.
```

```
*/
```

```

public class RB_TREE_SET KEY_GENERIC extends ABSTRACT_SORTED_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, SORTED_SET KEY_GENERIC {

    /** A reference to the root entry. */
    protected transient Entry KEY_GENERIC tree;

    /** Number of elements in this set. */
    protected int count;

    /** The entry of the first element of this set. */
    protected transient Entry KEY_GENERIC firstEntry;

    /** The entry of the last element of this set. */
    protected transient Entry KEY_GENERIC lastEntry;

    /** This set's comparator, as provided in the constructor. */
    protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;

    /** This set's actual comparator; it may differ from {@link #storedComparator} because it is
    always a type-specific comparator,
    so it could be derived from the former by wrapping. */
    protected transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;

    private static final long serialVersionUID = -7046029254386353130L;

    private static final boolean ASSERTS = ASSERTS_VALUE;

    {
        allocatePaths();
    }

    /** Creates a new empty tree set.
    */

    public RB_TREE_SET() {
        tree = null;
        count = 0;
    }

    /** Generates the comparator that will be actually used.
    *
    * <P>When a specific {@link Comparator} is specified and stored in {@link
    * #storedComparator}, we must check whether it is type-specific. If it is
    * so, we can used directly, and we store it in {@link #actualComparator}. Otherwise,
    * we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
    * and makes it into a type-specific one.
    */
    private void setActualComparator() {

```

```

#if #keyclass(Object)
    actualComparator = storedComparator;
#else
    /* If the provided comparator is already type-specific, we use
    it. Otherwise,
    we use a wrapper anonymous class to fake that it is type-specific. */
    if ( storedComparator == null || storedComparator instanceof KEY_COMPARATOR ) actualComparator =
    (KEY_COMPARATOR)storedComparator;
    else actualComparator = new KEY_COMPARATOR KEY_GENERIC() {
        public int compare( KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2 ) {
            return storedComparator.compare( KEY2OBJ( k1 ), KEY2OBJ( k2 ) );
        }
        public int compare( KEY_CLASS ok1, KEY_CLASS ok2 ) {
            return storedComparator.compare( ok1, ok2 );
        }
    };
#endif
}

```

```

/** Creates a new empty tree set with the given comparator.
 *
 * @param c a {@link Comparator} (even better, a type-specific comparator).
 */

```

```

public RB_TREE_SET( final Comparator<? super KEY_GENERIC_CLASS> c ) {
    this();
    storedComparator = c;
    setActualComparator();
}

```

```

/** Creates a new tree set copying a given collection.
 *
 * @param c a collection to be copied into the new tree set.
 */

```

```

public RB_TREE_SET( final
Collection<? extends KEY_GENERIC_CLASS> c ) {
    this();
    addAll( c );
}

```

```

/** Creates a new tree set copying a given sorted set (and its {@link Comparator}).
 *
 * @param s a {@link SortedSet} to be copied into the new tree set.
 */

```

```

public RB_TREE_SET( final SortedSet<KEY_GENERIC_CLASS> s ) {
    this( s.comparator() );
    addAll( s );
}

/** Creates a new tree set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new tree set.
 */

public RB_TREE_SET( final COLLECTION KEY_EXTENDS_GENERIC c ) {
    this();
    addAll( c );
}

/** Creates a new tree set copying a given type-specific sorted set (and its {@link Comparator}).
 *
 * @param s a type-specific sorted set to be copied into the new tree set.
 */

public RB_TREE_SET( final SORTED_SET KEY_GENERIC s ) {
    this( s.comparator() );
    addAll( s );
}

/** Creates a new tree set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific
iterator whose elements will fill the set.
 */

public RB_TREE_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i ) {
    while( i.hasNext() ) add( i.NEXT_KEY() );
}

#if #keys(primitive)

/** Creates a new tree set using elements provided by an iterator.
 *
 * @param i an iterator whose elements will fill the set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public RB_TREE_SET( final Iterator<?> i ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ) );
}

```

```

#endif

/** Creates a new tree set and fills it with the elements of a given array using a given { @link Comparator}.
 *
 * @param a an array whose elements will be used to fill the set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 * @param c a { @link Comparator} (even better, a type-specific comparator).
 */

public RB_TREE_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length, final Comparator<? super
KEY_GENERIC_CLASS> c ) {
    this( c );
    ARRAYS.ensureOffsetLength(
a, offset, length );
    for( int i = 0; i < length; i++ ) add( a[ offset + i ] );
}

/** Creates a new tree set and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 */

public RB_TREE_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length ) {
    this( a, offset, length, null );
}

/** Creates a new tree set copying the elements of an array.
 *
 * @param a an array to be copied into the new tree set.
 */

public RB_TREE_SET( final KEY_GENERIC_TYPE[] a ) {
    this();
    int i = a.length;
    while( i-- != 0 ) add( a[ i ] );
}

/** Creates a new tree set copying the elements of an array using a given { @link Comparator}.
 *
 * @param a an array to be copied into the new tree set.
 * @param c a { @link Comparator} (even better, a type-specific comparator).

```

```

*/

public RB_TREE_SET( final KEY_GENERIC_TYPE[]
a, final Comparator<? super KEY_GENERIC_CLASS> c ) {
    this( c );
    int i = a.length;
    while( i-- != 0 ) add( a[ i ] );
}

/*
 * The following methods implements some basic building blocks used by
 * all accessors. They are (and should be maintained) identical to those used in RBTreeMap.drv.
 *
 * The add()/remove() code is derived from Ben Pfaff's GNU libavl
 * (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
 * going on, you should have a look at the literate code contained therein
 * first.
 */

/** Compares two keys in the right way.
 *
 * <P>This method uses the { @link #actualComparator} if it is non-null.
 * Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo()}.
 *
 * @param k1 the first key.
 * @param k2 the second key.
 * @return a number smaller than, equal to or greater than 0, as usual
 * (i.e., when  $k1 < k2$ ,  $k1 = k2$  or  $k1 > k2$ , respectively).
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
final int compare( final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2 ) {
    return actualComparator == null ? KEY_CMP( k1, k2 ) : actualComparator.compare( k1, k2 );
}

/** Returns the entry corresponding to the given key, if it is in the tree; null, otherwise.
 *
 * @param k the key to search for.
 * @return the corresponding entry, or null if no entry with the given key exists.
 */

```

```

private Entry KEY_GENERIC findKey( final KEY_GENERIC_TYPE k ) {
    Entry KEY_GENERIC e = tree;
    int cmp;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 )
        e = cmp < 0 ? e.left() : e.right();

    return e;
}

/** Locates a key.
 *
 * @param k a key.
 * @return the last entry on a search for the given key; this will be
 * the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
 */

final Entry KEY_GENERIC locateKey( final KEY_GENERIC_TYPE k ) {
    Entry
    KEY_GENERIC e = tree, last = tree;
    int cmp = 0;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 ) {
        last = e;
        e = cmp < 0 ? e.left() : e.right();
    }

    return cmp == 0 ? e : last;
}

/** This vector remembers the path and the direction followed during the
 * current insertion. It suffices for about 232 entries. */
private transient boolean dirPath[];
private transient Entry KEY_GENERIC nodePath[];

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void allocatePaths() {
    dirPath = new boolean[ 64 ];
    #if #keys(reference)
        nodePath = new Entry[ 64 ];
    #else
        nodePath = new Entry[ 64 ];
    #endif
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    int maxDepth = 0;

```

```

if ( tree == null ) { // The case of the empty tree is treated separately.
    count++;
    tree = lastEntry = firstEntry = new Entry KEY_GENERIC( k );
}
else {
    Entry KEY_GENERIC p = tree, e;
    int cmp, i = 0;

    while( true ) {
        if ( ( cmp = compare( k, p.key ) ) == 0 )
        {
            // We clean up the node path, or we could have stale references later.
            while( i-- != 0 ) nodePath[ i ] = null;
            return false;
        }

        nodePath[ i ] = p;

        if ( dirPath[ i++ ] = cmp > 0 ) {
            if ( p.succ() ) {
                count++;
                e = new Entry KEY_GENERIC( k );

                if ( p.right == null ) lastEntry = e;

                e.left = p;
                e.right = p.right;

                p.right( e );

                break;
            }

            p = p.right;
        }
        else {
            if ( p.pred() ) {
                count++;
                e = new Entry KEY_GENERIC( k );

                if ( p.left == null ) firstEntry = e;

                e.right = p;
                e.left = p.left;

                p.left( e );
            }
        }
    }
}

```

```

    break;
}

p = p.left;
}
}

maxDepth = i--;

while( i > 0 && ! nodePath[ i ].black() ) {
    if ( ! dirPath[ i - 1 ] ) {
        Entry KEY_GENERIC y = nodePath[ i - 1 ].right;

        if ( ! nodePath[ i - 1 ].succ() && ! y.black() ) {
            nodePath[ i ].black( true );
            y.black(
true );
            nodePath[ i - 1 ].black( false );
            i -= 2;
        }
        else {
            Entry KEY_GENERIC x;

            if ( ! dirPath[ i ] ) y = nodePath[ i ];
            else {
                x = nodePath[ i ];
                y = x.right;
                x.right = y.left;
                y.left = x;
                nodePath[ i - 1 ].left = y;

                if ( y.pred() ) {
                    y.pred( false );
                    x.succ( y );
                }
            }

            x = nodePath[ i - 1 ];
            x.black( false );
            y.black( true );

            x.left = y.right;
            y.right = x;
            if ( i < 2 ) tree = y;
            else {
                if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = y;
                else nodePath[ i - 2 ].left = y;
            }

```

```

if ( y.succ() ) {
    y.succ( false );
    x.pred( y );
}
break;
}
}
else {
    Entry KEY_GENERIC y = nodePath[ i - 1 ].left;

    if ( ! nodePath[ i - 1 ].pred() && ! y.black() ) {
        nodePath[ i ].black( true );
        y.black( true );
        nodePath[ i - 1 ].black(
false );
        i -= 2;
    }
    else {
        Entry KEY_GENERIC x;

        if ( dirPath[ i ] ) y = nodePath[ i ];
        else {
            x = nodePath[ i ];
            y = x.left;
            x.left = y.right;
            y.right = x;
            nodePath[ i - 1 ].right = y;

            if ( y.succ() ) {
                y.succ( false );
                x.pred( y );
            }

        }

        x = nodePath[ i - 1 ];
        x.black( false );
        y.black( true );

        x.right = y.left;
        y.left = x;
        if ( i < 2 ) tree = y;
        else {
            if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = y;
            else nodePath[ i - 2 ].left = y;
        }
    }
}

```

```

    if ( y.pred() ){
        y.pred( false );
        x.succ( y );
    }

    break;
}
}
}
}
tree.black( true );
// We clean up the node path, or we could have stale references later.
while( maxDepth-- != 0 ) nodePath[ maxDepth ] = null;
if ( ASSERTS ) {
    checkNodePath();
    checkTree( tree, 0, -1 );
}
return true;
}

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

public
boolean remove( final KEY_TYPE k ) {
    if ( tree == null ) return false;

    Entry KEY_GENERIC p = tree;
    int cmp;
    int i = 0;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

    while( true ) {
        if ( ( cmp = compare( kk, p.key ) ) == 0 ) break;

        dirPath[ i ] = cmp > 0;
        nodePath[ i ] = p;

        if ( dirPath[ i++ ] ) {
            if ( ( p = p.right() ) == null ) {
                // We clean up the node path, or we could have stale references later.
                while( i-- != 0 ) nodePath[ i ] = null;
                return false;
            }
        }
        else {
            if ( ( p = p.left() ) == null ) {
                // We clean up the node path, or we could have stale references later.
                while( i-- != 0 ) nodePath[ i ] = null;
            }
        }
    }
}

```

```

    return false;
}
}
}

if ( p.left == null ) firstEntry = p.next();
if ( p.right == null ) lastEntry = p.prev();

if ( p.succ() ) {
    if ( p.pred() ) {
        if ( i == 0 ) tree = p.left;
        else {
            if ( dirPath[ i - 1 ] ) nodePath[ i - 1 ].succ( p.right );
            else nodePath[
i - 1 ].pred( p.left );
        }
    }
    else {
        p.prev().right = p.right;

        if ( i == 0 ) tree = p.left;
        else {
            if ( dirPath[ i - 1 ] ) nodePath[ i - 1 ].right = p.left;
            else nodePath[ i - 1 ].left = p.left;
        }
    }
}
else {
    boolean color;
    Entry KEY_GENERIC r = p.right;

    if ( r.pred() ) {
        r.left = p.left;
        r.pred( p.pred() );
        if ( ! r.pred() ) r.prev().right = r;
        if ( i == 0 ) tree = r;
        else {
            if ( dirPath[ i - 1 ] ) nodePath[ i - 1 ].right = r;
            else nodePath[ i - 1 ].left = r;
        }

        color = r.black();
        r.black( p.black() );
        p.black( color );
        dirPath[ i ] = true;
        nodePath[ i++ ] = r;
    }
    else {

```

```

Entry KEY_GENERIC s;
int j = i++;

while( true ) {
    dirPath[ i ] = false;
    nodePath[ i++ ] = r;
    s = r.left;
    if ( s.pred() ) break;
    r = s;
}

dirPath[ j ] = true;
nodePath[ j ] = s;

if ( s.succ() ) r.pred( s );
else r.left = s.right;

s.left = p.left;

if
( ! p.pred() ) {
    p.prev().right = s;
    s.pred( false );
}

s.right( p.right );

color = s.black();
s.black( p.black() );
p.black( color );

if ( j == 0 ) tree = s;
else {
    if ( dirPath[ j - 1 ] ) nodePath[ j - 1 ].right = s;
    else nodePath[ j - 1 ].left = s;
}
}

int maxDepth = i;

if ( p.black() ) {
    for( ; i > 0; i-- ) {
        if ( dirPath[ i - 1 ] && ! nodePath[ i - 1 ].succ() ||
            ! dirPath[ i - 1 ] && ! nodePath[ i - 1 ].pred() ) {
            Entry KEY_GENERIC x = dirPath[ i - 1 ] ? nodePath[ i - 1 ].right : nodePath[ i - 1 ].left;

            if ( ! x.black() ) {

```

```

x.black( true );
break;
}
}

if ( ! dirPath[ i - 1 ] ) {
Entry KEY_GENERIC w = nodePath[ i - 1 ].right;

if ( ! w.black() ) {
w.black( true );
nodePath[ i - 1 ].black( false );

nodePath[ i - 1 ].right = w.left;
w.left = nodePath[ i - 1 ];

if ( i < 2 ) tree = w;
else {
if
( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
else nodePath[ i - 2 ].left = w;
}

nodePath[ i ] = nodePath[ i - 1 ];
dirPath[ i ] = false;
nodePath[ i - 1 ] = w;
if ( maxDepth == i++ ) maxDepth++;

w = nodePath[ i - 1 ].right;
}

if ( ( w.pred() || w.left.black() ) &&
( w.succ() || w.right.black() ) ) {
w.black( false );
}
else {
if ( w.succ() || w.right.black() ) {
Entry KEY_GENERIC y = w.left;

y.black ( true );
w.black( false );
w.left = y.right;
y.right = w;
w = nodePath[ i - 1 ].right = y;

if ( w.succ() ) {
w.succ( false );
w.right.pred( w );
}
}
}
}

```

```

}

w.black( nodePath[ i - 1 ].black() );
nodePath[ i - 1 ].black( true );
w.right.black( true );

nodePath[ i - 1 ].right = w.left;
w.left = nodePath[ i - 1 ];

if ( i < 2 ) tree = w;
else {
    if ( dirPath[ i - 2 ] ) nodePath[
i - 2 ].right = w;
    else nodePath[ i - 2 ].left = w;
}

if ( w.pred() ) {
    w.pred( false );
    nodePath[ i - 1 ].succ( w );
}
break;
}
}
else {
Entry KEY_GENERIC w = nodePath[ i - 1 ].left;

if ( ! w.black() ) {
    w.black ( true );
    nodePath[ i - 1 ].black( false );

    nodePath[ i - 1 ].left = w.right;
    w.right = nodePath[ i - 1 ];

    if ( i < 2 ) tree = w;
    else {
        if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
        else nodePath[ i - 2 ].left = w;
    }

    nodePath[ i ] = nodePath[ i - 1 ];
    dirPath[ i ] = true;
    nodePath[ i - 1 ] = w;
    if ( maxDepth == i++ ) maxDepth++;

    w = nodePath[ i - 1 ].left;
}

if ( ( w.pred() || w.left.black() ) &&

```

```

    ( w.succ() || w.right.black() ) {
    w.black( false );
    }
else {
    if ( w.pred() || w.left.black() ) {
        Entry KEY_GENERIC y = w.right;

        y.black( true );
        w.black
( false );
        w.right = y.left;
        y.left = w;
        w = nodePath[ i - 1 ].left = y;

        if ( w.pred() ) {
            w.pred( false );
            w.left.succ( w );
        }
    }

    w.black( nodePath[ i - 1 ].black() );
    nodePath[ i - 1 ].black( true );
    w.left.black( true );

    nodePath[ i - 1 ].left = w.right;
    w.right = nodePath[ i - 1 ];

    if ( i < 2 ) tree = w;
    else {
        if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
        else nodePath[ i - 2 ].left = w;
    }

    if ( w.succ() ) {
        w.succ( false );
        nodePath[ i - 1 ].pred( w );
    }
    break;
}
}

if ( tree != null ) tree.black( true );
}

count--;
// We clean up the node path, or we could have stale references later.
while( maxDepth-- != 0 ) nodePath[ maxDepth ] = null;

```

```

if ( ASSERTS ) {
    checkNodePath();
    checkTree( tree, 0, -1 );
}
return true;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean
contains( final KEY_TYPE k ) {
    return findKey( KEY_GENERIC_CAST k ) != null;
}

#if #keyclass(Object)
SUPPRESS_WARNINGS_KEY_UNCHECKED
public K get( final KEY_TYPE k ) {
    final Entry KEY_GENERIC entry = findKey( KEY_GENERIC_CAST k );
    return entry == null ? null : entry.key;
}
#endif

public void clear() {
    count = 0;
    tree = null;
    firstEntry = lastEntry = null;
}

/** This class represent an entry in a tree set.
 *
 * <P>We use the only "metadata", i.e., { @link Entry#info}, to store
 * information about color, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

private static final class Entry KEY_GENERIC implements Cloneable {
    /** The the bit in this mask is true, the node is black. */
    private final static int BLACK_MASK = 1;
    /** If the bit in this mask is true, { @link #right} points to a successor. */
    private final static int SUCC_MASK = 1 << 31;
    /** If the bit
in this mask is true, { @link #left} points to a predecessor. */
    private final static int PRED_MASK = 1 << 30;
    /** The key of this entry. */
    KEY_GENERIC_TYPE key;
    /** The pointers to the left and right subtrees. */

```

```

Entry KEY_GENERIC left, right;
/** This integers holds different information in different bits (see { @link #SUCC_MASK}, { @link
#PRED_MASK} and { @link #BLACK_MASK}). */
int info;

Entry() {}

/** Creates a new red entry with the given key.
 *
 * @param k a key.
 */
Entry( final KEY_GENERIC_TYPE k ) {
    this.key = k;
    info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
 *
 * @return the left subtree (<code>>null</code> if the left
 * subtree is empty).
 */
Entry KEY_GENERIC left() {
    return ( info & PRED_MASK ) != 0 ? null : left;
}

/** Returns the right subtree.
 *
 * @return the right subtree (<code>>null</code> if the right
 * subtree is empty).
 */
Entry KEY_GENERIC right() {
    return ( info
& SUCC_MASK ) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
    return ( info & PRED_MASK ) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean succ() {
    return ( info & SUCC_MASK ) != 0;
}

```

```

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred( final boolean pred ) {
    if ( pred ) info |= PRED_MASK;
    else info &= ~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ( final boolean succ ) {
    if ( succ ) info |= SUCC_MASK;
    else info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred( final Entry KEY_GENERIC pred ) {
    info |= PRED_MASK;
    left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ( final Entry KEY_GENERIC succ ) {
    info |= SUCC_MASK;
    right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param left the new left subtree.
 */
void left( final Entry KEY_GENERIC left ) {
    info &= ~PRED_MASK;
    this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.
 */
void right( final Entry KEY_GENERIC right ) {
    info &= ~SUCC_MASK;
    this.right = right;
}

```

```

}

/** Returns whether this node is black.
 * @return true iff this node is black.
 */
boolean black() {
    return ( info & BLACK_MASK ) != 0;
}

/** Sets whether this node is black.
 * @param black if true, then this node becomes black; otherwise, it becomes red..
 */
void black( final boolean black ) {
    if
( black ) info |= BLACK_MASK;
    else info &= ~BLACK_MASK;
}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>>null</code>) if this is the last entry).
 */

Entry KEY_GENERIC next() {
    Entry KEY_GENERIC next = this.right;
    if ( ( info & SUCC_MASK ) == 0 ) while ( ( next.info & PRED_MASK ) == 0 ) next = next.left;
    return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */

Entry KEY_GENERIC prev() {
    Entry KEY_GENERIC prev = this.left;
    if ( ( info & PRED_MASK ) == 0 ) while ( ( prev.info & SUCC_MASK ) == 0 ) prev = prev.right;
    return prev;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Entry KEY_GENERIC clone() {
    Entry KEY_GENERIC c;
    try {
        c = (Entry KEY_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }
}

```

```

    }

    c.key = key;
    c.info = info;

    return
    c;
}

public boolean equals( final Object o ) {
    if (!(o instanceof Entry)) return false;
    Entry KEY_GENERIC_WILDCARD e = (Entry KEY_GENERIC_WILDCARD)o;

    return KEY_EQUALS(key, e.key);
}

public int hashCode() {
    return KEY2JAVAHASH_NOT_NULL(key);
}

public String toString() {
    return String.valueOf( key );
}

/*
    public void prettyPrint() {
        prettyPrint(0);
    }

    public void prettyPrint(int level) {
        if ( pred() ) {
            for (int i = 0; i < level; i++)
                System.err.print(" ");
            System.err.println("pred: " + left );
        }
        else if (left != null)
            left.prettyPrint(level +1 );
        for (int i = 0; i < level; i++)
            System.err.print(" ");
        System.err.println(key + " (" + (black() ? "black" : "red") + ")");
        if ( succ() ) {
            for (int i = 0; i < level; i++)
                System.err.print(" ");
            System.err.println("succ: " + right );
        }
        else if (right != null)

```

```

    right.prettyPrint(level + 1);
    }*/
}

/*
public void prettyPrint() {
    System.err.println("size: " + count);
    if (tree != null) tree.prettyPrint();
}
*/

public int size() {
    return count;
}

public boolean isEmpty() {
    return count == 0;
}

public KEY_GENERIC_TYPE FIRST() {
    if ( tree == null ) throw new NoSuchElementException();
    return firstEntry.key;
}

public KEY_GENERIC_TYPE LAST() {
    if ( tree == null ) throw new NoSuchElementException();
    return lastEntry.key;
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class SetIterator extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC {
    /** The entry that will be returned by the next call to { @link java.util.ListIterator#previous()} (or
    <code>>null</code> if no previous entry exists). */
    Entry KEY_GENERIC prev;
    /** The entry that will be returned by the next call to { @link java.util.ListIterator#next()} (or <code>>null</code> if
    no next entry exists). */
    Entry
    KEY_GENERIC next;
    /** The last entry that was returned (or <code>>null</code> if we did not iterate or used { @link #remove()}). */
    Entry KEY_GENERIC curr;
    /** The current index (in the sense of a { @link java.util.ListIterator}). Note that this value is not meaningful when
    this iterator has been created using the nonempty constructor.*/

```

```

int index = 0;

SetIterator() {
    next = firstEntry;
}

SetIterator( final KEY_GENERIC_TYPE k ) {
    if ( ( next = locateKey( k ) ) != null ) {
        if ( compare( next.key, k ) <= 0 ) {
            prev = next;
            next = next.next();
        }
        else prev = next.prev();
    }
}

public boolean hasNext() { return next != null; }
public boolean hasPrevious() { return prev != null; }

void updateNext() {
    next = next.next();
}

Entry KEY_GENERIC nextEntry() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    curr = prev = next;
    index++;
    updateNext();
    return curr;
}

public KEY_GENERIC_TYPE NEXT_KEY() { return
nextEntry().key; }
public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

void updatePrevious() {
    prev = prev.prev();
}

Entry KEY_GENERIC previousEntry() {
    if ( ! hasPrevious() ) throw new NoSuchElementException();
    curr = next = prev;
    index--;
    updatePrevious();
    return curr;
}

public int nextIndex() {

```

```

return index;
}

public int previousIndex() {
return index - 1;
}

public void remove() {
if ( curr == null ) throw new IllegalStateException();
/* If the last operation was a next(), we are removing an entry that preceeds
the current index, and thus we must decrement it. */
if ( curr == prev ) index--;
next = prev = curr;
updatePrevious();
updateNext();
RB_TREE_SET.this.remove( curr.key );
curr = null;
}
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
return new SetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) {
return new SetIterator(
from );
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
return actualComparator;
}

public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) {
return new Subset( KEY_NULL, true, to, false );
}

public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) {
return new Subset( from, false, KEY_NULL, true );
}

public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to ) {
return new Subset( from, false, to, false );
}
}

```

```

/** A subset with given range.
 *
 * <P>This class represents a subset. One has to specify the left/right
 * limits (which can be set to  $-\infty$ ; or  $\infty$ ;). Since the subset is a
 * view on the set, at a given moment it could happen that the limits of
 * the range are not any longer in the main set. Thus, things such as
 * { @link java.util.SortedSet#first()} or { @link java.util.Collection#size()} must be always computed
 * on-the-fly.
 */
private final class Subset extends ABSTRACT_SORTED_SET
KEY_GENERIC implements java.io.Serializable, SORTED_SET KEY_GENERIC {
    private static final long serialVersionUID = -7046029254386353129L;

    /** The start of the subset range, unless { @link #bottom} is true. */
    KEY_GENERIC_TYPE from;
    /** The end of the subset range, unless { @link #top} is true. */
    KEY_GENERIC_TYPE to;
    /** If true, the subset range starts from  $-\infty$ ; */
    boolean bottom;
    /** If true, the subset range goes to  $\infty$ ; */
    boolean top;

    /** Creates a new subset with given key range.
     *
     * @param from the start of the subset range.
     * @param bottom if true, the first parameter is ignored and the range starts from  $-\infty$ ;
     * @param to the end of the subset range.
     * @param top if true, the third parameter is ignored and the range goes to  $\infty$ ;
     */
    public Subset( final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE to, final
boolean top ) {
        if ( ! bottom && ! top && RB_TREE_SET.this.compare(
from, to ) > 0 ) throw new IllegalArgumentException( "Start element (" + from + ") is larger than end element (" +
to + ")" );

        this.from = from;
        this.bottom = bottom;
        this.to = to;
        this.top = top;
    }

    public void clear() {
        final SubsetIterator i = new SubsetIterator();
        while( i.hasNext() ) {
            i.NEXT_KEY();
            i.remove();
        }
    }

```

```

}

/** Checks whether a key is in the subset range.
 * @param k a key.
 * @return true if is the key is in the subset range.
 */
final boolean in( final KEY_GENERIC_TYPE k ) {
    return ( bottom || RB_TREE_SET.this.compare( k, from ) >= 0 ) &&
        ( top || RB_TREE_SET.this.compare( k, to ) < 0 );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains( final KEY_TYPE k ) {
    return in( KEY_GENERIC_CAST k ) && RB_TREE_SET.this.contains( k );
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    if ( ! in( k ) ) throw new IllegalArgumentException( "Element (" + k + ") out of range [" + ( bottom ? "-" :
String.valueOf(
from ) ) + ", " + ( top ? "-" : String.valueOf( to ) ) + "]" );
    return RB_TREE_SET.this.add( k );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean remove( final KEY_TYPE k ) {
    if ( ! in( KEY_GENERIC_CAST k ) ) return false;
    return RB_TREE_SET.this.remove( k );
}

public int size() {
    final SubsetIterator i = new SubsetIterator();
    int n = 0;

    while( i.hasNext() ) {
        n++;
        i.NEXT_KEY();
    }

    return n;
}

public boolean isEmpty() {
    return ! new SubsetIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

```

```

}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
    return new SubsetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) {
    return new SubsetIterator( from );
}

public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) {
    if ( top ) return new Subset( from, bottom, to, false );
    return compare(
to, this.to ) < 0 ? new Subset( from, bottom, to, false ) : this;
}

public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) {
    if ( bottom ) return new Subset( from, false, to, top );
    return compare( from, this.from ) > 0 ? new Subset( from, false, to, top ) : this;
}

public SORTED_SET KEY_GENERIC subSet( KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to ) {
    if ( top && bottom ) return new Subset( from, false, to, false );
    if ( ! top ) to = compare( to, this.to ) < 0 ? to : this.to;
    if ( ! bottom ) from = compare( from, this.from ) > 0 ? from : this.from;
    if ( ! top && ! bottom && from == this.from && to == this.to ) return this;
    return new Subset( from, false, to, false );
}

/** Locates the first entry.
 *
 * @return the first entry of this subset, or <code>null</code> if the subset is empty.
 */
public RB_TREE_SET.Entry KEY_GENERIC firstEntry() {
    if ( tree == null ) return null;
    // If this subset goes to -infinity,
we return the main set first entry; otherwise, we locate the start of the set.
    RB_TREE_SET.Entry KEY_GENERIC e;
    if ( bottom ) e = firstEntry();
    else {
        e = locateKey( from );
        // If we find either the start or something greater we're OK.
        if ( compare( e.key, from ) < 0 ) e = e.next();
    }
    // Finally, if this subset doesn't go to infinity, we check that the resulting key isn't greater than the end.
    if ( e == null || ! top && compare( e.key, to ) >= 0 ) return null;
    return e;
}

```

```

}

/** Locates the last entry.
 *
 * @return the last entry of this subset, or <code>null</code> if the subset is empty.
 */
public RB_TREE_SET.Entry KEY_GENERIC lastEntry() {
    if ( tree == null ) return null;
    // If this subset goes to infinity, we return the main set last entry; otherwise, we locate the end of the set.
    RB_TREE_SET.Entry KEY_GENERIC e;
    if ( top ) e = lastEntry();
    else {
        e = locateKey( to );
        // If we find something smaller than the
end we're OK.
        if ( compare( e.key, to ) >= 0 ) e = e.prev();
    }
    // Finally, if this subset doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
    if ( e == null || ! bottom && compare( e.key, from ) < 0 ) return null;
    return e;
}

public KEY_GENERIC_TYPE FIRST() {
    RB_TREE_SET.Entry KEY_GENERIC e = firstEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

public KEY_GENERIC_TYPE LAST() {
    RB_TREE_SET.Entry KEY_GENERIC e = lastEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

/** An iterator for subranges.
 *
 * <P>This class inherits from { @link SetIterator}, but overrides the methods that
 * update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
would
 * move out of the range of the subset we just overwrite the next or previous
 * entry with <code>null</code>.
 */
private final
class SubsetIterator extends SetIterator {
    SubsetIterator() {
        next = firstEntry();
    }
}

```

```

SubsetIterator( final KEY_GENERIC_TYPE k ) {
    this();

    if ( next != null ) {
        if ( ! bottom && compare( k, next.key ) < 0 ) prev = null;
        else if ( ! top && compare( k, ( prev = lastEntry() ).key ) >= 0 ) next = null;
        else {
            next = locateKey( k );

            if ( compare( next.key, k ) <= 0 ) {
                prev = next;
                next = next.next();
            }
            else prev = next.prev();
        }
    }

    void updatePrevious() {
        prev = prev.prev();
        if ( ! bottom && prev != null && RB_TREE_SET.this.compare( prev.key, from ) < 0 ) prev = null;
    }

    void updateNext() {
        next = next.next();
        if ( ! top && next != null && RB_TREE_SET.this.compare( next.key, to ) >= 0 ) next = null;
    }
}

/** Returns a deep copy of this tree set.
 *
 * <P>This method performs a deep copy of this tree set; the data stored in the
 * set, however, is not
 * cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this tree set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Object clone() {
    RB_TREE_SET KEY_GENERIC c;
    try {
        c = (RB_TREE_SET KEY_GENERIC)super.clone();
    }
}

```

```

catch(CloneNotSupportedException cantHappen) {
    throw new InternalError();
}

c.allocatePaths();

if ( count != 0 ) {
    // Also this apparently unfathomable code is derived from GNU libavl.
    Entry KEY_GENERIC e, p, q, rp = new Entry KEY_GENERIC(), rq = new Entry KEY_GENERIC();

    p = rp;
    rp.left( tree );

    q = rq;
    rq.pred( null );

    while( true ) {
        if ( ! p.pred() ) {
            e = p.left.clone();
            e.pred( q.left );
            e.succ( q );
            q.left( e );

            p = p.left;
            q = q.left;
        }
        else {
            while( p.succ() ) {
                p = p.right;

                if ( p == null ) {
                    q.right = null;
                    c.tree = rq.left;

                    c.firstEntry = c.tree;
                    while( c.firstEntry.left != null ) c.firstEntry
= c.firstEntry.left;
                    c.lastEntry = c.tree;
                    while( c.lastEntry.right != null ) c.lastEntry = c.lastEntry.right;

                    return c;
                }
                q = q.right;
            }

            p = p.right;
            q = q.right;
        }
    }
}

```

```

    if ( ! p.succ() ) {
        e = p.right.clone();
        e.succ( q.right );
        e.pred( q );
        q.right( e );
    }
}

return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    int n = count;
    SetIterator i = new SetIterator();

    s.defaultWriteObject();
    while( n-- != 0 ) s.WRITE_KEY( i.NEXT_KEY() );
}

/** Reads the given number of entries from the input stream, returning the corresponding tree.
 *
 * @param s the input stream.
 * @param n the (positive) number of entries to read.
 * @param pred the entry containing the key that preceeds the first key in the tree.
 * @param succ the entry containing the key that follows the last key in the tree.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
private
Entry KEY_GENERIC readTree( final java.io.ObjectInputStream s, final int n, final Entry KEY_GENERIC pred,
final Entry KEY_GENERIC succ ) throws java.io.IOException, ClassNotFoundException {
    if ( n == 1 ) {
        final Entry KEY_GENERIC top = new Entry KEY_GENERIC( KEY_GENERIC_CAST s.READ_KEY() );
        top.pred( pred );
        top.succ( succ );
        top.black( true );

        return top;
    }

    if ( n == 2 ) {
        /* We handle separately this case so that recursion will
         *always* be on nonempty subtrees. */
        final Entry KEY_GENERIC top = new Entry KEY_GENERIC( KEY_GENERIC_CAST s.READ_KEY() );
        top.black( true );

```

```

top.right( new Entry KEY_GENERIC( KEY_GENERIC_CAST s.READ_KEY() ) );
top.right.pred( top );
top.pred( pred );
top.right.succ( succ );

return top;
}

// The right subtree is the largest one.
final int rightN = n / 2, leftN = n - rightN - 1;

final Entry KEY_GENERIC top = new Entry KEY_GENERIC();

top.left( readTree( s, leftN, pred, top ) );

top.key =
KEY_GENERIC_CAST s.READ_KEY();
top.black( true );

top.right( readTree( s, rightN, top, succ ) );

if ( n + 2 == ( ( n + 2 ) & -( n + 2 ) ) ) top.right.black( false ); // Quick test for determining whether n + 2 is a power
of 2.

return top;
}

private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
/* The storedComparator is now correctly set, but we must restore
on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if ( count != 0 ) {
tree = readTree( s, count, null, null );
Entry KEY_GENERIC e;

e = tree;
while( e.left() != null ) e = e.left();
firstEntry = e;

e = tree;
while( e.right() != null ) e = e.right();
lastEntry = e;
}
}

```

```

if ( ASSERTS ) checkTree( tree, 0, -1 );
}

#ifdef ASSERTS_CODE
private void checkNodePath() {
    for ( int i = nodePath.length; i-- != 0; ) assert nodePath[ i ] == null : i;
}

private static KEY_GENERIC
int checkTree( Entry KEY_GENERIC e, int d, int D ) {
    if ( e == null ) return 0;
    if ( e.black() ) d++;
    if ( e.left() != null ) D = checkTree( e.left(), d, D );
    if ( e.right() != null ) D = checkTree( e.right(), d, D );
    if ( e.left() == null && e.right() == null ) {
        if ( D == -1 ) D = d;
        else if ( D != d ) throw new AssertionError( "Mismatch between number of black nodes (" + D + " and " + d + ")" );
    }
    return D;
}
#else
private void checkNodePath() {}
@SuppressWarnings("unused")
private int checkTree( Entry KEY_GENERIC e, int d, int D ) { return 0; }
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #else
        return Integer.toBinaryString( r.nextInt() );
    #endif
}

private static java.text.NumberFormat
format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();

```

```

return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    int i, j;
    RB_TREE_SET m;
    java.util.TreeSet t;
    KEY_TYPE k[] = new KEY_TYPE[n];
    KEY_TYPE nk[] = new KEY_TYPE[n];
    long ms;

    for( i = 0; i < n; i++ ) {
        k[i] = genKey();
        nk[i] = genKey();
    }

    double totAdd = 0, totYes = 0, totNo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd;

    if ( comp ) {
        for( j = 0; j < 20; j++ ) {

            t = new java.util.TreeSet();

            /* We first add all pairs to t. */
            for( i = 0; i < n; i++ ) t.add( KEY2OBJ( k[i] ) );

            /* Then we remove the first half and put it back. */
            for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );

            ms = System.currentTimeMillis();
            for( i = 0; i < n/2;
i++ ) t.add( KEY2OBJ( k[i] ) );
            d = System.currentTimeMillis() - ms;

            /* Then we remove the other half and put it back again. */
            ms = System.currentTimeMillis();
            for( i = n/2; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
            dd = System.currentTimeMillis() - ms ;

            ms = System.currentTimeMillis();
            for( i = n/2; i < n; i++ ) t.add( KEY2OBJ( k[i] ) );
            d += System.currentTimeMillis() - ms;
            if ( j > 2 ) totAdd += n/d;
            System.out.print("Add: " + format( n/d ) + " K/s " );

            /* Then we remove again the first half. */
            ms = System.currentTimeMillis();
            for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );

```

```

dd += System.currentTimeMillis() - ms ;
if ( j > 2 ) totRemYes += n/dd;
System.out.print("RemYes: " + format( n/dd ) + " K/s " );

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) t.add( KEY2OBJ( k[i] ) );

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++
) t.contains( KEY2OBJ( k[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( nk[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );

/* We iterate on t. */
ms = System.currentTimeMillis();
for( Iterator it = t.iterator(); it.hasNext(); it.next() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "java.util Add: " + format( totAdd/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + " K/s
IterFor: " + format( totIterFor/(j-3) ) + " K/s" );

System.out.println();

totAdd = totYes = totNo = totIterFor = totIterBack = totRemYes = 0;

}

for( j = 0; j < 20; j++ ) {

m = new RB_TREE_SET();

```

```

/* We first add all pairs to m. */
for( i = 0; i < n; i++ ) m.add( k[i] );

/* Then we remove the first half and put it back. */
for( i = 0; i < n/2; i++ ) m.remove( k[i] );

ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.add( k[i] );
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for( i = n/2; i < n; i++ ) m.remove( k[i] );
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for( i = n/2; i < n; i++ ) m.add( k[i] );
d += System.currentTimeMillis() - ms;
if ( j > 2 ) totAdd += n/d;
System.out.print("Add: " + format( n/d ) + " K/s " );

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for(
i = 0; i < n/2; i++ ) m.remove( k[i] );
dd += System.currentTimeMillis() - ms ;
if ( j > 2 ) totRemYes += n/dd;
System.out.print("RemYes: " + format( n/dd ) + " K/s " );

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) m.add( k[i] );

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.contains( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.contains( nk[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );

/* We iterate on m. */
KEY_LIST_ITERATOR it = (KEY_LIST_ITERATOR)m.iterator();

```

```

ms = System.currentTimeMillis();
for( ; it.hasNext(); it.NEXT_KEY() );
d = 1.0 * n / (System.currentTimeMillis()
- ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) + " K/s " );

/* We iterate back on m. */
ms = System.currentTimeMillis();
for( ; it.hasPrevious(); it.PREV_KEY() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterBack += d;
System.out.print("IterBack: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();
System.out.println( "fastutil Add: " + format( totAdd/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + " K/s IterFor: " + format( totIterFor/(j-3) ) + "
K/s IterBack: " + format( totIterBack/(j-3) ) + "K/s" );

System.out.println();
}

private static boolean valEquals(Object o1, Object o2) {
return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal( String msg ) {
System.out.println( msg );
System.exit( 1 );
}

private
static void ensure( boolean cond, String msg ) {
if ( cond ) return;
fatal( msg );
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static RB_TREE_SET topSet;

protected static void testSets( SORTED_SET m, SortedSet t, int n, int level ) {

```

```

long ms;
boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
boolean rt = false, rm = false;

if ( level > 4 ) return;

/* Now we check that both sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.first();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.first();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")"
);
if ( ! mThrowsNoElement ) ensure( t.first().equals( m.first() ), "Error (" + level + ", " + seed + "): m and t differ at
start on their first key (" + m.first() + ", " + t.first() + ")" );

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.last();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.last();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): last() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

if ( ! mThrowsNoElement ) ensure( t.last().equals( m.last() ), "Error (" + level + ", " + seed + "): m and t differ at
start on their last key (" + m.last() + ", " + t.last() + ")" );

/* Now we check that m and t are equal. */
if ( !m.equals( t ) || !t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

```

```

ensure( m.equals(
t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.iterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)" );
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.contains(T);
    }
    catch ( NoSuchElementException
e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        t.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)),
"Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic method)" );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but

```

```

    for m we use the standard
method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        t.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t and m (standard method)" );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        rm = m.add(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        rt = t.add(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
}

```

```

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence
in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( rm == rt, "Error (" + level + ", " + seed + "): divergence in
add() between t and m" );

```

```

T = genKey();

```

```

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
    rm = m.remove(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

```

```

try {
    rt = t.remove(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

```

```

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove()
divergence in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( rm == rt, "Error (" + level + ", " + seed + "): divergence in
remove() between t and m" );
}

```

```

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal" );

```

```

/* Now we check that m actually holds the same data. */

```

```

for(Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

```

```

/* Now we check that m actually holds that data, but iterating on m. */

```

```

for(Iterator i=m.iterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

```

```

/* Now we check that both
sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.first();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.first();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + " )");
if ( ! mThrowsNoElement ) ensure( t.first().equals( m.first() ), "Error (" + level + ", " + seed + "): m and t differ on
their first key (" + m.first() + ", " + t.first() + " )");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.last();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.last();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement,
"Error (" + level + ", " + seed + "): last() divergence in NoSuchElementException (" + mThrowsNoElement + ", " +
tThrowsNoElement + " )");

if ( ! mThrowsNoElement ) ensure( t.last().equals( m.last() ), "Error (" + level + ", " + seed + "): m and t differ on
their last key (" + m.last() + ", " + t.last() + " )");

/* Now we check cloning. */

if ( level == 0 ) {
    ensure( m.equals( ((RB_TREE_SET)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal m.clone()" );
    ensure( ((RB_TREE_SET)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m" );
    m = (RB_TREE_SET)((RB_TREE_SET)m).clone();
}

/* Now we play with constructors. */
ensure( m.equals( new RB_TREE_SET( (Collection)m ) ), "Error (" + level + ", " + seed + "): m does not equal new

```

```

(Collection m)");
    ensure( ( new RB_TREE_SET( (Collection)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( Collection m
)does not equal m" );
    ensure( m.equals( new RB_TREE_SET(
(COLLECTION)m ) ), "Error (" + level + ", " + seed + "): m does not equal new ( type-specific Collection m )" );
    ensure( ( new RB_TREE_SET( (COLLECTION)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( type-
specific Collection m ) does not equal m" );
    ensure( m.equals( new RB_TREE_SET( (SortedSet)m ) ), "Error (" + level + ", " + seed + "): m does not equal new
( SortedSet m )" );
    ensure( ( new RB_TREE_SET( (SortedSet)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( SortedSet m
) does not equal m" );
    ensure( m.equals( new RB_TREE_SET( (SORTED_SET)m ) ), "Error (" + level + ", " + seed + "): m does not equal
new ( type-specific SortedSet m )" );
    ensure( ( new RB_TREE_SET( (SORTED_SET)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( type-
specific SortedSet m ) does not equal m" );
    ensure( m.equals( new RB_TREE_SET( m.iterator() ) ), "Error (" + level + ", " + seed + "): m does not equal new (
m.iterator() )" );
    ensure( ( new
RB_TREE_SET( m.iterator() ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( m.iterator() ) does not equal
m" );
    ensure( m.equals( new RB_TREE_SET( m.iterator() ) ), "Error (" + level + ", " + seed + "): m does not equal new (
m.type_specific_iterator() )" );
    ensure( ( new RB_TREE_SET( m.iterator() ) ).equals( m ), "Error (" + level + ", " + seed + "): new (
m.type_specific_iterator() ) does not equal m" );

    /* Now we play with conversion to array, wrapping and copying. */
    ensure( m.equals( new RB_TREE_SET( m.TO_KEY_ARRAY() ) ), "Error (" + level + ", " + seed + "): m does not
equal new ( toArray( m ) )" );
    ensure( ( new RB_TREE_SET( m.TO_KEY_ARRAY() ) ).equals( m ), "Error (" + level + ", " + seed + "): new (
toArray( m ) ) does not equal m" );

    int h = m.hashCode();

    /* Now we save and read m. */

    SORTED_SET m2 = null;

    try {
        java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
        java.io.OutputStream os = new java.io.FileOutputStream(ff);
        java.io.ObjectOutputStream
oos = new java.io.ObjectOutputStream(os);

        oos.writeObject(m);
        oos.close();

```

```

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SORTED_SET)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit( 1 );
}

ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );

/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext(); ) m2.remove(i.next());

ensure( m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty
(as it should be)" );

/* Now we play with iterators. */

{
java.util.ListIterator i, j;
Object J;
i = (java.util.ListIterator)m.iterator();
j = new java.util.LinkedList( t ).listIterator();

for( int k = 0; k < 2*n; k++ ) {
ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()" );
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

if ( r.nextFloat() < .8 && i.hasNext() ) {
ensure( i.next().equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next()" );

if ( r.nextFloat() < 0.5 ) {
i.remove();
j.remove();
t.remove( J );
}
}
}
}

```

```

else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
    ensure( i.previous().equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous()" );

    if ( r.nextFloat() < 0.5 ) {
        i.remove();
        j.remove();
        t.remove(
J);
    }
}

ensure( i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()" );

}

}

{
    boolean badPrevious = false;
    Object previous = null;
    it.unimi.dsi.fastutil.BidirectionalIterator i;
    java.util.ListIterator j;
    Object I, J;
    KEY_TYPE from = genKey();
    j = new java.util.LinkedList( t ).listIterator();
    while( j.hasNext() ) {
        Object k = j.next();
        if ( ((Comparable)k).compareTo( KEY2OBJ( from ) ) > 0 ) {
            badPrevious = true;
            j.previous();
            break;
        }
        previous = k;
    }

    i = (it.unimi.dsi.fastutil.BidirectionalIterator)m.iterator( from );

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")" );
        ensure( i.hasPrevious() == j.hasPrevious()
|| badPrevious && ( i.hasPrevious() == ( previous != null ) ), "Error (" + level + ", " + seed + "): divergence in
hasPrevious() (iterator with starting point " + from + ")" + badPrevious );

        if ( r.nextFloat() < .8 && i.hasNext() ) {
            ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")" );

```

```

//System.err.println("Done next " + I + " " + J + " " + badPrevious);

badPrevious = false;

if ( r.nextFloat() < 0.5 ) {
    //System.err.println("Removing in next");
    i.remove();
    j.remove();
    t.remove( J );
}
}
else if ( !badPrevious && r.nextFloat() < .2 && i.hasPrevious() ) {
    ensure( ( I = i.previous() ).equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")" );

    if ( r.nextFloat() < 0.5 ) {
        //System.err.println("Removing
in prev");
        i.remove();
        j.remove();
        t.remove( J );
    }
}
}

}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a subset. */

if ( ! m.isEmpty() ) {
    java.util.ListIterator i;
    Object start = m.first(), end = m.first();
    for( i = (java.util.ListIterator)m.iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next() );
    for( ; i.hasNext() && r.nextFloat() < .95; end = i.next() );

    //System.err.println("Checking subSet from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testSets( (SORTED_SET)m.subSet( (KEY_CLASS)start, (KEY_CLASS)end ), t.subSet( start, end ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(
t ) after subSet" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subSet" );

    //System.err.println("Checking headSet to " + end + " (level=" + (level+1) + ")..." );

```

```

testSets( (SORTED_SET)m.headSet( (KEY_CLASS)end ), t.headSet( end ), n, level + 1 );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after headSet" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after headSet" );

//System.err.println("Checking tailSet from " + start + " (level=" + (level+1) + ")...");
testSets( (SORTED_SET)m.tailSet( (KEY_CLASS)start ), t.tailSet( start ), n, level + 1 );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after tailSet" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after tailSet" );
}

}

private static void test( int n ) {
    RB_TREE_SET m = new RB_TREE_SET();
    SortedSet t = new java.util.TreeSet();
    topSet
    = m;
    k = new Object[n];
    nk = new Object[n];
    kt = new KEY_TYPE[n];
    nkt = new KEY_TYPE[n];

    for( int i = 0; i < n; i++ ) {
#if #keyclass(Object)
        k[i] = kt[i] = genKey();
        nk[i] = nkt[i] = genKey();
#else
        k[i] = new KEY_CLASS( kt[i] = genKey() );
        nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
    }

    /* We add pairs to t. */
    for( int i = 0; i < n; i++ ) t.add( k[i] );

    /* We add to m the same data */
    m.addAll(t);

    testSets( m, t, n, 0 );

    System.out.println("Test OK");
    return;
}

```

```

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

```

Found

in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/RBTreeSet.drv

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 */

package PACKAGE;

import java.util.ListIterator;
import it.unimi.dsi.fastutil.BigListIterator;

/** An abstract class facilitating the creation of type-specific { @link it.unimi.dsi.fastutil.BigListIterator big-
list iterators }.
 *
 * <p>This implementation provides (deprecated) implementations of { @link ListIterator#previousIndex() }
and { @link ListIterator#nextIndex() } that
 * just invoke the corresponding { @link BigListIterator } methods.
 *
 * @see java.util.ListIterator
 * @see it.unimi.dsi.fastutil.BigListIterator
 */

public abstract class KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC extends
KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC implements KEY_BIG_LIST_ITERATOR
KEY_GENERIC {

    protected KEY_ABSTRACT_BIG_LIST_ITERATOR() {}

    #if #keys(primitive)
    /** Delegates to the corresponding type-specific method. */
    public void set( KEY_GENERIC_CLASS ok ) { set( ok.KEY_VALUE() ); }
    /** Delegates to the corresponding type-specific method. */
    public void add( KEY_GENERIC_CLASS ok ) { add( ok.KEY_VALUE() ); }
    #endif
}
```

```

/** This method just throws an {@link UnsupportedOperationException}. */
public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
/** This method just throws an {@link UnsupportedOperationException}. */
public void add( KEY_GENERIC_TYPE k ) { throw new
UnsupportedOperationException(); }

/** This method just iterates the type-specific version of {@code next()} for at most
 * <code>n</code> times, stopping if {@link #hasNext()} becomes false.*/

public long skip( final long n ) {
    long i = n;
    while( i-- != 0 && hasNext() ) NEXT_KEY();
    return n - i - 1;
}

/** This method just iterates the type-specific version of {@link #previous()} for
 * at most <code>n</code> times, stopping if {@link
 * #hasPrevious()} becomes false. */
public long back( final long n ) {
    long i = n;
    while( i-- != 0 && hasPrevious() ) PREV_KEY();
    return n - i - 1;
}

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractBigListIterator.drv

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```

```

package PACKAGE;

import it.unimi.dsi.fastutil.Hash;
import it.unimi.dsi.fastutil.HashCommon;
import static it.unimi.dsi.fastutil.HashCommon.arraySize;
import static it.unimi.dsi.fastutil.HashCommon.maxFill;

import java.util.Arrays;
import java.util.Collection;
import java.util.Iterator;
import java.util.NoSuchElementException;

#ifdef
Linked

#if #keys(reference)
import java.util.Comparator;
#endif

/** A type-specific linked hash set with with a fast, small-footprint implementation.
 *
 * <P>Instances of this class use a hash table to represent a set. The table is
 * filled up to a specified <em>load factor</em>, and then doubled in size to
 * accommodate new entries. If the table is emptied below <em>one fourth</em>
 * of the load factor, it is halved in size. However, halving is
 * not performed when deleting entries from an iterator, as it would interfere
 * with the iteration process.
 *
 * <p>Note that { @link #clear() } does not modify the hash table size.
 * Rather, a family of { @linkplain #trim() trimming
 * methods } lets you control the size of the table; this is particularly useful
 * if you reuse instances of this class.
 *
 * <P>Iterators generated by this set will enumerate elements in the same order in which they
 * have been added to the set (addition of elements already present
 *
 * in the set does not change the iteration order). Note that this order has nothing in common with the natural
 * order of the keys. The order is kept by means of a doubly linked list, represented
 * <i>via</i> an array of longs parallel to the table.
 *
 * <P>This class implements the interface of a sorted set, so to allow easy
 * access of the iteration order: for instance, you can get the first element
 * in iteration order with { @code first() } without having to create an
 * iterator; however, this class partially violates the { @link java.util.SortedSet }
 * contract because all subset methods throw an exception and { @link
 * #comparator() } returns always <code>null</code>.
 *
 * <p>Additional methods, such as <code>addAndMoveToFirst()</code>, make it easy

```

- * to use instances of this class as a cache (e.g., with LRU policy).
- *
- * <P>The iterators provided by this class are type-specific { @linkplain
- * java.util.ListIterator list iterators}, and can be started at any
- * element
- which is in the set (if the provided element
- * is not in the set, a { @link NoSuchElementException} exception will be thrown).
- * If, however, the provided element is not the first or last element in the
- * set, the first access to the list index will require linear time, as in the worst case
- * the entire set must be scanned in iteration order to retrieve the positional
- * index of the starting element. If you use just the methods of a type-specific { @link
- it.unimi.dsi.fastutil.BidirectionalIterator},
- * however, all operations will be performed in constant time.
- *
- * @see Hash
- * @see HashCommon
- */

```
public class OPEN_HASH_SET KEY_GENERIC extends ABSTRACT_SORTED_SET KEY_GENERIC
implements java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
#ifdef Custom
```

```
/** A type-specific hash set with a fast, small-footprint implementation whose { @linkplain
it.unimi.dsi.fastutil.Hash.Strategy hashing strategy}
* is specified at creation time.
*
* <P>Instances of this class use a hash table
to represent a set. The table is
* filled up to a specified <em>load factor</em>, and then doubled in size to
* accommodate new entries. If the table is emptied below <em>one fourth</em>
* of the load factor, it is halved in size. However, halving is
* not performed when deleting entries from an iterator, as it would interfere
* with the iteration process.
*
* <p>Note that { @link #clear()} does not modify the hash table size.
* Rather, a family of { @linkplain #trim() trimming
* methods} lets you control the size of the table; this is particularly useful
* if you reuse instances of this class.
*
* @see Hash
* @see HashCommon
*/
```

```
public class OPEN_HASH_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
/** A type-specific hash set with with a fast, small-footprint implementation.
 *
 * <P>Instances of this class use a hash table to represent a set. The table is
 * enlarged as needed by doubling its size when new
 * entries are created, but it is <em>never</em> made
 * smaller (even on a { @link #clear()}). A family of { @linkplain #trim() trimming
 * methods} lets you control the size of the table; this is particularly useful
 * if you reuse instances of this class.
 *
 * @see Hash
 * @see HashCommon
 */
```

```
public class OPEN_HASH_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, Hash {
```

```
#endif
```

```
#endif
```

```
    private static final long serialVersionUID = 0L;
    private static final boolean ASSERTS = ASSERTS_VALUE;
```

```
/** The array of keys. */
protected transient KEY_GENERIC_TYPE[] key;
```

```
/** The mask for wrapping a position counter. */
protected transient int mask;
```

```
/** Whether this set contains the null key. */
protected transient boolean containsNull;
```

```
#ifdef Custom
```

```
/** The hash strategy of this custom set. */
protected STRATEGY KEY_GENERIC strategy;
```

```
#endif
```

```
#ifdef Linked
```

```
/** The index of the first entry in iteration order. It is valid iff { @link #size }
is nonzero; otherwise, it contains -1. */
```

```
protected transient int first = -1;
```

```
/** The index of the last entry in iteration order. It is valid iff { @link #size } is nonzero; otherwise, it contains -1. */
protected transient int last = -1;
```

```
/** For each entry, the next and the previous entry in iteration order,
```

```
    * stored as <code>((prev & 0xFFFFFFFFFL) << 32) | (next & 0xFFFFFFFFFL)</code>.
```

```

    * The first entry contains predecessor -1, and the last entry
    * contains successor -1. */
protected transient long[] link;
#endif

/** The current table size. Note that an additional element is allocated for storing the null key. */
protected transient int n;

/** Threshold after which we rehash. It must be the table size times { @link #f}. */
protected transient int maxFill;

/** Number of entries in the set (including the null key, if present). */
protected int size;

/** The acceptable load factor. */
protected final float f;

#ifdef Custom
/** Creates a new hash set.
 *
 * <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
 *
 * @param expected the expected number of elements in the hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_SET( final int expected, final float f, final STRATEGY KEY_GENERIC strategy ) {
    this.strategy = strategy;
#else
/** Creates a new hash set.
 *
 * <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
 *
 * @param expected the expected number of elements in the hash set.
 * @param f the load factor.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_SET( final int expected, final float f ) {
#endif
    if ( f <= 0 || f > 1 ) throw new IllegalArgumentException( "Load factor must be greater than 0 and smaller than or
equal to 1" );
    if ( expected < 0 ) throw new IllegalArgumentException( "The expected number of elements must
be nonnegative" );

    this.f = f;

```

```

n = arraySize( expected, f );
mask = n - 1;
maxFill = maxFill( n, f );
key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ n + 1 ];
#ifdef Linked
    link = new long[ n + 1 ];
#endif
}

#ifdef Custom
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 *
 * @param expected the expected number of elements in the hash set.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final int expected, final STRATEGY KEY_GENERIC strategy ) {
    this( expected, DEFAULT_LOAD_FACTOR, strategy );
}

#else

/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 *
 * @param expected the expected number of elements in the hash set.
 */

public OPEN_HASH_SET( final int expected ) {
    this( expected, DEFAULT_LOAD_FACTOR );
}

#endif

#ifdef Custom
/** Creates a new hash set with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } elements
 * and { @link Hash#DEFAULT_LOAD_FACTOR } as load
 * factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final STRATEGY KEY_GENERIC strategy ) {
    this( DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR, strategy );
}

#else

/** Creates a new hash set with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } elements
 * and { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
 */

```

```

public OPEN_HASH_SET() {
    this( DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash set copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final Collection<? extends KEY_GENERIC_CLASS> c, final float f, final
STRATEGY KEY_GENERIC strategy ) {
    this( c.size(), f, strategy );
    addAll( c );
}
#else
/** Creates a new hash set copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 * @param f the load factor.
 */

public OPEN_HASH_SET( final Collection<? extends KEY_GENERIC_CLASS> c, final float f ) {
    this( c.size(), f );
    addAll( c );
}
#endif

#ifdef Custom
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final Collection<? extends KEY_GENERIC_CLASS> c, final STRATEGY
KEY_GENERIC strategy ) {
    this( c, DEFAULT_LOAD_FACTOR, strategy );
}

```

```

#else
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 */

public OPEN_HASH_SET( final Collection<? extends KEY_GENERIC_CLASS> c ) {
    this( c, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash set copying a given type-specific collection.
 *
 * @param c a type-specific collection
to be copied into the new hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final COLLECTION KEY_EXTENDS_GENERIC c, final float f, STRATEGY
KEY_GENERIC strategy ) {
    this( c.size(), f, strategy );
    addAll( c );
}
#else
/** Creates a new hash set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash set.
 * @param f the load factor.
 */

public OPEN_HASH_SET( final COLLECTION KEY_EXTENDS_GENERIC c, final float f ) {
    this( c.size(), f );
    addAll( c );
}
#endif

#ifdef Custom
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash set.
 * @param strategy the strategy.

```

```

*/

public OPEN_HASH_SET( final COLLECTION KEY_EXTENDS_GENERIC c, final STRATEGY
KEY_GENERIC strategy ) {
    this( c, DEFAULT_LOAD_FACTOR,
strategy );
}
#else
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
* copying a given type-specific collection.
*
* @param c a type-specific collection to be copied into the new hash set.
*/

public OPEN_HASH_SET( final COLLECTION KEY_EXTENDS_GENERIC c ) {
    this( c, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom
/** Creates a new hash set using elements provided by a type-specific iterator.
*
* @param i a type-specific iterator whose elements will fill the set.
* @param f the load factor.
* @param strategy the strategy.
*/

public OPEN_HASH_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final float f, final
STRATEGY KEY_GENERIC strategy ) {
    this( DEFAULT_INITIAL_SIZE, f, strategy );
    while( i.hasNext() ) add( i.NEXT_KEY() );
}
#else
/** Creates a new hash set using elements provided by a type-specific iterator.
*
* @param i a type-specific iterator whose elements will fill the set.
* @param f the load factor.
*
*/

public OPEN_HASH_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final float f ) {
    this( DEFAULT_INITIAL_SIZE, f );
    while( i.hasNext() ) add( i.NEXT_KEY() );
}
#endif

#ifdef Custom

```

```

/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by a type-specific iterator.
*
* @param i a type-specific iterator whose elements will fill the set.
* @param strategy the strategy.
*/

public OPEN_HASH_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final STRATEGY
KEY_GENERIC strategy ) {
    this( i, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by a type-specific iterator.
*
* @param i a type-specific iterator whose elements will fill the set.
*/

public OPEN_HASH_SET( final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i ) {
    this( i, DEFAULT_LOAD_FACTOR );
}
#endif

#if #keys(primitive)

#ifdef Custom
/** Creates
a new hash set using elements provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
* @param f the load factor.
* @param strategy the strategy.
*/

public OPEN_HASH_SET( final Iterator<?> i, final float f, final STRATEGY KEY_GENERIC strategy ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ), f, strategy );
}
#else
/** Creates a new hash set using elements provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
* @param f the load factor.
*/

public OPEN_HASH_SET( final Iterator<?> i, final float f ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ), f );
}

```

```

}

#endif

#ifdef Custom
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
* @param strategy the strategy.
*/

public OPEN_HASH_SET( final Iterator<?> i, final STRATEGY KEY_GENERIC strategy ) {
    this( ITERATORS.AS_KEY_ITERATOR(
i ), strategy );
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
*/

public OPEN_HASH_SET( final Iterator<?> i ) {
    this( ITERATORS.AS_KEY_ITERATOR( i ) );
}
#endif

#endif

#ifdef Custom
/** Creates a new hash set and fills it with the elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
* @param f the load factor.
* @param strategy the strategy.
*/

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length, final float f, final
STRATEGY KEY_GENERIC strategy ) {
    this( length < 0 ? 0 : length, f, strategy );
    ARRAYS.ensureOffsetLength( a, offset, length );
    for( int i = 0; i < length; i++ ) add( a[ offset + i ] );
}

```

```

}
#else
/** Creates a new hash set and
fills it with the elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
* @param f the load factor.
*/

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length, final float f ) {
    this( length < 0 ? 0 : length, f );
    ARRAYS.ensureOffsetLength( a, offset, length );
    for( int i = 0; i < length; i++ ) add( a[ offset + i ] );
}
#endif

#ifdef Custom
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor and fills it with the
elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
* @param strategy the strategy.
*/

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length, final STRATEGY
KEY_GENERIC strategy ) {
    this( a, offset,
length, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor and fills it with the
elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
*/

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final int offset, final int length ) {
    this( a, offset, length, DEFAULT_LOAD_FACTOR );
}
#endif

#ifdef Custom

```

```

/** Creates a new hash set copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final float f, final STRATEGY KEY_GENERIC
strategy ) {
    this( a, 0, a.length, f, strategy );
}
#else
/** Creates a new hash set copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.

 * @param f the load factor.
 */

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final float f ) {
    this( a, 0, a.length, f );
}
#endif

#ifdef Custom
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a, final STRATEGY KEY_GENERIC strategy ) {
    this( a, DEFAULT_LOAD_FACTOR, strategy );
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.
 */

public OPEN_HASH_SET( final KEY_GENERIC_TYPE[] a ) {
    this( a, DEFAULT_LOAD_FACTOR );
}
#endif

```

```

#ifdef Custom
/** Returns the hashing strategy.
 *
 * @return the hashing strategy of this custom hash set.
 */

public STRATEGY KEY_GENERIC strategy() {
    return strategy;
}
#endif

private
int realSize() {
    return containsNull ? size - 1 : size;
}

private void ensureCapacity( final int capacity ) {
    final int needed = arraySize( capacity, f );
    if ( needed > n ) rehash( needed );
}

private void tryCapacity( final long capacity ) {
    final int needed = (int)Math.min( 1 << 30, Math.max( 2, HashCommon.nextPowerOfTwo( (long)Math.ceil( capacity
/f ) ) ) );
    if ( needed > n ) rehash( needed );
}

#if #keys(primitive)
/** {@inheritDoc} */
public boolean addAll( COLLECTION c ) {
    if ( f <= .5 ) ensureCapacity( c.size() ); // The resulting collection will be sized for c.size() elements
    else tryCapacity( size() + c.size() ); // The resulting collection will be tentatively sized for size() + c.size() elements
    return super.addAll( c );
}
#endif

/** {@inheritDoc} */
public boolean addAll( Collection<? extends KEY_GENERIC_CLASS> c ) {
    // The resulting collection will be at least c.size() big
    if ( f <= .5 ) ensureCapacity( c.size() ); // The
    resulting collection will be sized for c.size() elements
    else tryCapacity( size() + c.size() ); // The resulting collection will be tentatively sized for size() + c.size() elements
    return super.addAll( c );
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    int pos;

```

```

if ( KEY_EQUALS_NULL( k ) ) {
    if ( containsNull ) return false;
#ifdef Linked
    pos = n;
#endif
    containsNull = true;
#ifdef Custom
    key[ n ] = k;
#endif
}
else {
    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;

    // The starting point.
    if ( ! KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) {
        if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return false;
        while( ! KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) )
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return false;
    }
    key[ pos ] = k;
}

#ifdef Linked
if ( size == 0 ) {
    first = last = pos;
    // Special case of SET_UPPER_LOWER(link[ pos ], -1, -1);
    link[ pos ] = -1L;
}
else {
    SET_NEXT(
link[ last ], pos );
    SET_UPPER_LOWER( link[ pos ], last, -1 );
    last = pos;
}
#endif

if ( size++ >= maxFill ) rehash( arraySize( size + 1, f ) );
if ( ASSERTS ) checkTable();
return true;
}

#if #keyclass(Object)
/** Add a random element if not present, get the existing value if already present.
 *
 * This is equivalent to (but faster than) doing a:
 * <pre>

```

```

* K exist = set.get(k);
* if (exist == null) {
*   set.add(k);
*   exist = k;
* }
* </pre>
*/
public KEY_GENERIC_TYPE addOrGet( final KEY_GENERIC_TYPE k ) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNull ) return key [ n ];
#ifdef Linked
        pos = n;
#endif
        containsNull = true;
#ifdef Custom
        key [ n ] = k;
#endif
    }
    else {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[] key = this.key;

        // The starting point.
        if ( ! KEY_IS_NULL( curr = key[ pos = KEY2INTHASH( k ) & mask ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return curr;
            while( ! KEY_IS_NULL(
curr = key[ pos = ( pos + 1 ) & mask ] ) )
                if ( KEY_EQUALS_NOT_NULL( curr, k ) ) return curr;
        }
        key[ pos ] = k;
    }

#ifdef Linked
    if ( size == 0 ) {
        first = last = pos;
        // Special case of SET_UPPER_LOWER(link[ pos ], -1, -1);
        link[ pos ] = -1L;
    }
    else {
        SET_NEXT( link[ last ], pos );
        SET_UPPER_LOWER( link[ pos ], last, -1 );
        last = pos;
    }
#endif

    if ( size++ >= maxFill ) rehash( arraySize( size + 1, f ) );

```

```

if ( ASSERTS ) checkTable();
return k;
}
#endif

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
protected final void shiftKeys( int pos ) {
// Shift entries with the same hash.
int last, slot;
KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[] key = this.key;

for(;;) {
pos = ( ( last = pos ) + 1 ) & mask;

for(;;) {
if ( KEY_IS_NULL( curr = key[ pos ] ) ) {
key[ last ] = KEY_NULL;
return;
}
slot
= KEY2INTHASH( curr ) & mask;
if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
pos = ( pos + 1 ) & mask;
}

key[ last ] = curr;
#ifdef Linked
fixPointers( pos, last );
#endif
}
}

private boolean removeEntry( final int pos ) {
size--;
#ifdef Linked
fixPointers( pos );
#endif
shiftKeys( pos );
if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
return true;
}

private boolean removeNullEntry() {

```

```

containsNull = false;
key[ n ] = KEY_NULL;
size--;
#ifdef Linked
    fixPointers( n );
#endif
if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
return true;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean remove( final KEY_TYPE k ) {
    if ( KEY_EQUALS_NULL( KEY_GENERIC_CAST k ) ) {
        if ( containsNull ) return removeNullEntry();
        return false;
    }

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting
    point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH_CAST( k ) & mask ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return removeEntry( pos );

    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return false;
        if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return removeEntry( pos );
    }
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains( final KEY_TYPE k ) {
    if ( KEY_EQUALS_NULL( KEY_GENERIC_CAST k ) ) return containsNull;

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH_CAST( k ) & mask ] ) ) return false;
    if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return true;

    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return false;
        if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return true;
    }
}

```

```

}

#if #keyclass(Object)
/** Returns the element of this set that is equal to the given key,
or <code>null</code>.
* @return the element of this set that is equal to the given key, or <code>null</code>.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public K get( final Object k ) {
    if ( KEY_EQUALS_NULL( KEY_GENERIC_CAST k ) ) return key[ n ]; // This is correct independently of the
value of containsNull and of the map being custom

    KEY_GENERIC_TYPE curr;
    final KEY_GENERIC_TYPE[] key = this.key;
    int pos;

    // The starting point.
    if ( KEY_IS_NULL( curr = key[ pos = KEY2INTHASH_CAST( k ) & mask ] ) ) return null;
    if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return curr;
    // There's always an unused entry.
    while( true ) {
        if ( KEY_IS_NULL( curr = key[ pos = ( pos + 1 ) & mask ] ) ) return null;
        if ( KEY_EQUALS_NOT_NULL_CAST( k, curr ) ) return curr;
    }
}
#endif

#ifdef Linked

/** Removes the first key in iteration order.
* @return the first key.
* @throws NoSuchElementException is this set is empty.
*/
public KEY_GENERIC_TYPE REMOVE_FIRST_KEY() {
    if ( size
== 0 ) throw new NoSuchElementException();
    final int pos = first;
    // Abbreviated version of fixPointers(pos)
    first = GET_NEXT(link[ pos ]);
    if ( 0 <= first ) {
        // Special case of SET_PREV( link[ first ], -1 )
        link[ first ] |= (-1 & 0xFFFFFFFFL) << 32;
    }
    final KEY_GENERIC_TYPE k = key[ pos ];
    size--;
    if ( KEY_EQUALS_NULL( k ) ) {
        containsNull = false;
        key[ n ] = KEY_NULL;

```

```

    }
    else shiftKeys( pos );
    if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
    return k;
}

/** Removes the the last key in iteration order.
 * @return the last key.
 * @throws NoSuchElementException is this set is empty.
 */
public KEY_GENERIC_TYPE REMOVE_LAST_KEY() {
    if ( size == 0 ) throw new NoSuchElementException();
    final int pos = last;
    // Abbreviated version of fixPointers(pos)
    last = GET_PREV(link[ pos ]);
    if ( 0 <= last ) {
        // Special case of SET_NEXT( link[ last ], -1 )
        link[ last ] |= -1 & 0xFFFFFFFFFL;
    }
    final KEY_GENERIC_TYPE
    k = key[ pos ];
    size--;
    if ( KEY_EQUALS_NULL( k ) ) {
        containsNull = false;
        key[ n ] = KEY_NULL;
    }
    else shiftKeys( pos );
    if ( size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE ) rehash( n / 2 );
    return k;
}

private void moveIndexToFirst( final int i ) {
    if ( size == 1 || first == i ) return;
    if ( last == i ) {
        last = GET_PREV(link[ i ]);
        // Special case of SET_NEXT( link[ last ], -1 );
        link[ last ] |= -1 & 0xFFFFFFFFFL;
    }
    else {
        final long linki = link[ i ];
        final int prev = GET_PREV(linki);
        final int next = GET_NEXT(linki);
        COPY_NEXT(link[ prev ], linki);
        COPY_PREV(link[ next ], linki);
    }
    SET_PREV( link[ first ], i );
    SET_UPPER_LOWER( link[ i ], -1, first );
    first = i;
}

```

```

}

private void moveIndexToLast( final int i ) {
    if ( size == 1 || last == i ) return;
    if ( first == i ) {
        first = GET_NEXT(link[ i ]);
        // Special case of SET_PREV( link[ first ], -1 );
        link[ first ] |= (-1 & 0xFFFFFFFFL) << 32;
    }
    else {
        final
long linki = link[ i ];
        final int prev = GET_PREV(linki);
        final int next = GET_NEXT(linki);
        COPY_NEXT(link[ prev ], linki);
        COPY_PREV(link[ next ], linki);
    }
    SET_NEXT( link[ last ], i );
    SET_UPPER_LOWER( link[ i ], last, -1 );
    last = i;
}

/** Adds a key to the set; if the key is already present, it is moved to the first position of the iteration order.
 *
 * @param k the key.
 * @return true if the key was not present.
 */
public boolean addAndMoveToFirst( final KEY_GENERIC_TYPE k ) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNull ) {
            moveIndexToFirst( n );
            return false;
        }
        containsNull = true;
        pos = n;
    }
    else {
        // The starting point.
        final KEY_GENERIC_TYPE key[] = this.key;
        pos = KEY2INTHASH( k ) & mask;

        // There's always an unused entry. TODO
        while( ! KEY_IS_NULL( key[ pos ] ) ) {
            if ( KEY_EQUALS_NOT_NULL( k, key[ pos ] ) ) {
                moveIndexToFirst( pos );
                return false;
            }
        }
    }
}

```

```

    }

    pos
= ( pos + 1 ) & mask;
    }
}

key[ pos ] = k;

if ( size == 0 ) {
    first = last = pos;
    // Special case of SET_UPPER_LOWER( link[ pos ], -1, -1 );
    link[ pos ] = -1L;
}
else {
    SET_PREV( link[ first ], pos );
    SET_UPPER_LOWER( link[ pos ], -1, first );
    first = pos;
}

if ( size++ >= maxFill ) rehash( arraySize( size, f ) );
if ( ASSERTS ) checkTable();
return true;
}

/** Adds a key to the set; if the key is already present, it is moved to the last position of the iteration order.
 *
 * @param k the key.
 * @return true if the key was not present.
 */
public boolean addAndMoveToLast( final KEY_GENERIC_TYPE k ) {
    int pos;

    if ( KEY_EQUALS_NULL( k ) ) {
        if ( containsNull ) {
            moveIndexToLast( n );
            return false;
        }
        containsNull = true;
        pos = n;
    }
    else {
        // The starting point.
        final KEY_GENERIC_TYPE key[] = this.key;
        pos = KEY2INTHASH( k ) & mask;

        // There's always an unused entry.
        while( ! KEY_IS_NULL(

```

```

key[ pos ] ) ) {
    if ( KEY_EQUALS_NOT_NULL( k, key[ pos ] ) ) {
        moveIndexToLast( pos );
        return false;
    }

    pos = ( pos + 1 ) & mask;
}
}

key[ pos ] = k;

if ( size == 0 ) {
    first = last = pos;
    // Special case of SET_UPPER_LOWER( link[ pos ], -1, -1 );
    link[ pos ] = -1L;
}
else {
    SET_NEXT( link[ last ], pos );
    SET_UPPER_LOWER( link[ pos ], last, -1 );
    last = pos;
}

if ( size++ >= maxFill ) rehash( arraySize( size, f ) );
if ( ASSERTS ) checkTable();
return true;
}

#endif

/* Removes all elements from this set.
 *
 * <P>To increase object reuse, this method does not change the table size.
 * If you want to reduce the table size, you must use { @link #trim() }.
 *
 */

public void clear() {
    if ( size == 0 ) return;
    size = 0;
    containsNull = false;
    Arrays.fill( key, KEY_NULL );
#ifdef Linked
    first = last = -1;
#endif
}

```

```

public int size() {
    return size;
}

public boolean isEmpty() {
    return size == 0;
}

/**
A no-op for backward compatibility.
*
* @param growthFactor unused.
* @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
*/
@Deprecated
public void growthFactor( int growthFactor ) {}

/** Gets the growth factor (2).
*
* @return the growth factor of this set, which is fixed (2).
* @see #growthFactor(int)
* @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
*/
@Deprecated
public int growthFactor() {
    return 16;
}

#ifdef Linked

/** Modifies the { @link #link } vector so that the given entry is removed.
* This method will complete in constant time.
*
* @param i the index of an entry.
*/
protected void fixPointers( final int i ) {
    if ( size == 0 ) {
        first = last = -1;
        return;
    }
    if ( first == i ) {
        first = GET_NEXT(link[ i ]);
        if ( 0 <= first ) {
            // Special case of SET_PREV( link[ first ], -1 )
            link[ first ] |= (-1 & 0xFFFFFFFFL) <<

```

```

32;
}
return;
}
if ( last == i ) {
last = GET_PREV(link[ i ]);
if ( 0 <= last ) {
// Special case of SET_NEXT( link[ last ], -1 )
link[ last ] |= -1 & 0xFFFFFFFFL;
}
return;
}
final long linki = link[ i ];
final int prev = GET_PREV(linki);
final int next = GET_NEXT(linki);
COPY_NEXT(link[ prev ], linki);
COPY_PREV(link[ next ], linki);
}

/** Modifies the { @link #link } vector for a shift from s to d.
 * This method will complete in constant time.
 *
 * @param s the source position.
 * @param d the destination position.
 */
protected void fixPointers( int s, int d ) {
if ( size == 1 ) {
first = last = d;
// Special case of SET(link[ d ], -1, -1)
link[ d ] = -1L;
return;
}
if ( first == s ) {
first = d;
SET_PREV( link[ GET_NEXT(link[ s ]) ], d );
link[ d ] = link[ s ];
return;
}
if ( last == s ) {
last = d;
SET_NEXT( link[ GET_PREV(link[ s ]) ], d );
link[ d ] = link[ s ];
return;
}
final long
links = link[ s ];
final int prev = GET_PREV(links);

```

```

final int next = GET_NEXT(links);
SET_NEXT( link[ prev ], d );
SET_PREV( link[ next ], d );
link[ d ] = links;
}

/** Returns the first element of this set in iteration order.
 *
 * @return the first element in iteration order.
 */
public KEY_GENERIC_TYPE FIRST() {
    if ( size == 0 ) throw new NoSuchElementException();
    return key[ first ];
}

/** Returns the last element of this set in iteration order.
 *
 * @return the last element in iteration order.
 */
public KEY_GENERIC_TYPE LAST() {
    if ( size == 0 ) throw new NoSuchElementException();
    return key[ last ];
}

public SORTED_SET KEY_GENERIC tailSet( KEY_GENERIC_TYPE from ) { throw new
UnsupportedOperationException(); }
public SORTED_SET KEY_GENERIC headSet( KEY_GENERIC_TYPE to ) { throw new
UnsupportedOperationException(); }
public SORTED_SET KEY_GENERIC subSet( KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to ) {
throw new UnsupportedOperationException();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

/** A list iterator over a linked set.
 *
 * <P>This class provides a list iterator over a linked hash set. The constructor runs in constant time.
 */
private class SetIterator extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC {
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#previous()} (or
    <code>null</code> if no previous entry exists). */
    int prev = -1;
    /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>null</code> if
    no next entry exists). */

```

```

int next = -1;
/** The last entry that was returned (or -1 if we did not iterate or used {@link #remove()}). */
int curr = -1;
/** The current index (in the sense of a {@link java.util.ListIterator}). When -1, we do not know the current
index.*/
int index = -1;

SetIterator() {
    next = first;
    index = 0;
}

SetIterator( KEY_GENERIC_TYPE from
) {
    if ( KEY_EQUALS_NULL( from ) ) {
        if ( OPEN_HASH_SET.this.containsNull ) {
            next = GET_NEXT( link[ n ] );
            prev = n;
            return;
        }
        else throw new NoSuchElementException( "The key " + from + " does not belong to this set." );
    }

    if ( KEY_EQUALS( key[ last ], from ) ) {
        prev = last;
        index = size;
        return;
    }

    // The starting point.
    final KEY_GENERIC_TYPE key[] = OPEN_HASH_SET.this.key;
    int pos = KEY2INTHASH( from ) & mask;

    // There's always an unused entry.
    while( ! KEY_IS_NULL( key[ pos ] ) ) {
        if ( KEY_EQUALS_NOT_NULL( key[ pos ], from ) ) {
            // Note: no valid index known.
            next = GET_NEXT( link[ pos ] );
            prev = pos;
            return;
        }
        pos = ( pos + 1 ) & mask;
    }
    throw new NoSuchElementException( "The key " + from + " does not belong to this set." );
}

public boolean hasNext() { return next != -1; }
public boolean hasPrevious() { return prev != -1; }

```

```

public KEY_GENERIC_TYPE NEXT_KEY()
{
    if ( ! hasNext() ) throw new NoSuchElementException();

    curr = next;
    next = GET_NEXT(link[ curr ]);
    prev = curr;

    if ( index >= 0 ) index++;
    if ( ASSERTS ) assert curr == n || ! KEY_IS_NULL( key[ curr ] ) : "Position " + curr + " is not used";
    return key[ curr ];
}

public KEY_GENERIC_TYPE PREV_KEY() {
    if ( ! hasPrevious() ) throw new NoSuchElementException();

    curr = prev;
    prev = GET_PREV(link[ curr ]);
    next = curr;

    if ( index >= 0 ) index--;

    return key[ curr ];
}

private final void ensureIndexKnown() {
    if ( index >= 0 ) return;
    if ( prev == -1 ) {
        index = 0;
        return;
    }
    if ( next == -1 ) {
        index = size;
        return;
    }
    int pos = first;
    index = 1;
    while( pos != prev ) {
        pos = GET_NEXT( link[ pos ] );
        index++;
    }
}

public int nextIndex() {
    ensureIndexKnown();
    return index;
}

```

```

public int previousIndex() {
    ensureIndexKnown();
    return index - 1;
}

public void
remove() {
    ensureIndexKnown();
    if ( curr == -1 ) throw new IllegalStateException();

    if ( curr == prev ) {
        /* If the last operation was a next(), we are removing an entry that precedes
           the current index, and thus we must decrement it. */
        index--;
        prev = GET_PREV(link[ curr ]);
    }
    else
        next = GET_NEXT(link[ curr ]);

    size--;
    /* Now we manually fix the pointers. Because of our knowledge of next
       and prev, this is going to be faster than calling fixPointers(). */
    if ( prev == -1 ) first = next;
    else
        SET_NEXT( link[ prev ], next );
    if ( next == -1 ) last = prev;
    else
        SET_PREV( link[ next ], prev );

    int last, slot, pos = curr;
    curr = -1;

    if ( pos == n ) {
        OPEN_HASH_SET.this.containsNull = false;
        OPEN_HASH_SET.this.key[ n ] = KEY_NULL;
    }
    else {
        KEY_GENERIC_TYPE curr;
        final KEY_GENERIC_TYPE[] key = OPEN_HASH_SET.this.key;
        // We have to horribly duplicate the shiftKeys() code because we need
to update next/prev.
        for(;;) {
            pos = ( ( last = pos ) + 1 ) & mask;
            for(;;) {
                if ( KEY_IS_NULL( curr = key[ pos ] ) ) {
                    key[ last ] = KEY_NULL;

```

```

    return;
}
slot = KEY2INTHASH( curr ) & mask;
if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
pos = ( pos + 1 ) & mask;
}

```

```

key[ last ] = curr;
if ( next == pos ) next = last;
if ( prev == pos ) prev = last;
fixPointers( pos, last );
}
}
}
}

```

/** Returns a type-specific list iterator on the elements in this set, starting from a given element of the set.

* Please see the class documentation for implementation details.

*

* @param from an element to start from.

* @return a type-specific list iterator starting at the given element.

* @throws IllegalArgumentException if <code>from</code> does not belong to the set.

*/

```

public KEY_LIST_ITERATOR KEY_GENERIC iterator( KEY_GENERIC_TYPE from ) {
    return
    new SetIterator( from );
}

```

```

public KEY_LIST_ITERATOR KEY_GENERIC iterator() {
    return new SetIterator();
}

```

#else

/** An iterator over a hash set. */

```

private class SetIterator extends KEY_ABSTRACT_ITERATOR KEY_GENERIC {
    /** The index of the last entry returned, if positive or zero; initially, {@link #n}. If negative, the last
        element returned was that of index {@code - pos - 1} from the {@link #wrapped} list. */
    int pos = n;
    /** The index of the last entry that has been returned (more precisely, the value of {@link #pos} if {@link #pos} is
    positive,
        or {@link Integer#MIN_VALUE} if {@link #pos} is negative). It is -1 if either
        we did not return an entry yet, or the last returned entry has been removed. */
    int last = -1;
    /** A downward counter measuring how many entries must still be returned. */
    int c = size;
}

```

```

/** A boolean telling us whether we should return the null key. */
boolean mustReturnNull = OPEN_HASH_SET.this.containsNull;
/** A lazily allocated
list containing elements that have wrapped around the table because of removals. */
ARRAY_LIST KEY_GENERIC wrapped;

public boolean hasNext() {
    return c != 0;
}

public KEY_GENERIC_TYPE NEXT_KEY() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    c--;
    if ( mustReturnNull ) {
        mustReturnNull = false;
        last = n;
        return key[ n ];
    }
    final KEY_GENERIC_TYPE key[] = OPEN_HASH_SET.this.key;
    for(;;) {
        if ( --pos < 0 ) {
            // We are just enumerating elements from the wrapped list.
            last = Integer.MIN_VALUE;
            return wrapped.GET_KEY( - pos - 1 );
        }
        if ( ! KEY_IS_NULL( key[ pos ] ) ) return key[ last = pos ];
    }
}

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
private final void shiftKeys( int pos ) {
    // Shift entries with the same hash.
    int last, slot;
    KEY_GENERIC_TYPE
curr;
    final KEY_GENERIC_TYPE[] key = OPEN_HASH_SET.this.key;

    for(;;) {
        pos = ( ( last = pos ) + 1 ) & mask;

        for(;;) {
            if ( KEY_IS_NULL( curr = key[ pos ] ) ) {
                key[ last ] = KEY_NULL;

```

```

    return;
}
slot = KEY2INTHASH( curr ) & mask;
if ( last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos ) break;
pos = ( pos + 1 ) & mask;
}

if ( pos < last ) { // Wrapped entry.
    if ( wrapped == null ) wrapped = new ARRAY_LIST KEY_GENERIC( 2 );
    wrapped.add( key[ pos ] );
}

key[ last ] = curr;
}
}

public void remove() {
    if ( last == -1 ) throw new IllegalStateException();
    if ( last == n ) {
        OPEN_HASH_SET.this.containsNull = false;
        OPEN_HASH_SET.this.key[ n ] = KEY_NULL;
    }
    else if ( pos >= 0 ) shiftKeys( last );
    else {
        // We're removing wrapped entries.
#ifdef keys(reference)
        OPEN_HASH_SET.this.remove( wrapped.set( - pos - 1, null ) );
#else
        OPEN_HASH_SET.this.remove(
            wrapped.GET_KEY( - pos - 1 ) );
#endif
        last = -1; // Note that we must not decrement size
        return;
    }

    size--;
    last = -1; // You can no longer remove this entry.
    if ( ASSERTS ) checkTable();
}

public KEY_ITERATOR KEY_GENERIC iterator() {
    return new SetIterator();
}

#endif

```

```
/** A no-op for backward compatibility. The kind of tables implemented by
 * this class never need rehashing.
 *
 * <P>If you need to reduce the table size to fit exactly
 * this set, use { @link #trim()}.
 *
 * @return true.
 * @see #trim()
 * @deprecated A no-op.
 */
```

```
@Deprecated
public boolean rehash() {
    return true;
}
```

```
/** Rehashes this set, making the table as small as possible.
 *
 * <P>This method rehashes the table to the smallest size satisfying the
 * load factor. It can be used when the set will not be changed anymore, so
 * to optimize access speed and size.
 *
 * <P>If the table size is already the minimum possible, this method
 * does nothing.
 *
 * @return true if there was enough memory to trim the set.
 * @see #trim(int)
 */
```

```
public boolean trim() {
    final int l = arraySize( size, f );
    if ( l >= n || size > maxFill( l, f ) ) return true;
    try {
        rehash( l );
    }
    catch(OutOfMemoryError cantDoIt) { return false; }
    return true;
}
```

```
/** Rehashes this set if the table is too large.
 *
 * <P>Let <var>N</var> be the smallest table size that can hold
 * <code>max(n,{ @link #size()})</code> entries, still satisfying the load factor. If the current
 * table size is smaller than or equal to <var>N</var>, this method does
```

```

* nothing. Otherwise, it rehashes this set in a table of size
* <var>N</var>.
*
* <P>This method is useful when reusing sets. { @linkplain #clear() Clearing a
* set} leaves the table size untouched. If you are reusing a set
* many times, you can call this method with a typical
* size to avoid keeping around a very large table just
* because of a few large transient sets.
*
* @param n the threshold for the trimming.
* @return true if there was enough memory to trim the set.
* @see #trim()
*/

public boolean trim( final int n ) {
    final int l = HashCommon.nextPowerOfTwo( (int)Math.ceil( n / f ) );
    if ( l >= n || size > maxFill( l, f ) ) return true;
    try {
        rehash( l );
    }
    catch( OutOfMemoryError cantDoIt ) { return false; }
    return true;
}

/** Rehashes the set.
*
* <P>This method implements the basic rehashing strategy, and may be
* overridden by subclasses implementing different rehashing strategies (e.g.,
* disk-based rehashing). However, you should not override this method
* unless you understand the internal workings of this class.
*
* @param newN the new size
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
protected void rehash( final int newN ) {
    final KEY_GENERIC_TYPE key[] = this.key;

    final int mask = newN - 1; // Note that this is used by the hashing macro
    final KEY_GENERIC_TYPE newKey[] = KEY_GENERIC_ARRAY_CAST new
    KEY_TYPE[ newN + 1 ];

    #ifdef Linked
    int i = first, prev = -1, newPrev = -1, t, pos;
    final long link[] = this.link;
    final long newLink[] = new long[ newN + 1 ];
    first = -1;

```

```

for( int j = size; j-- != 0; ) {
    if ( KEY_EQUALS_NULL( key[ i ] ) ) pos = newN;
    else {
        pos = KEY2INTHASH( key[ i ] ) & mask;
        while ( ! KEY_IS_NULL( newKey[ pos ] ) ) pos = ( pos + 1 ) & mask;
    }

    newKey[ pos ] = key[ i ];

    if ( prev != -1 ) {
        SET_NEXT( newLink[ newPrev ], pos );
        SET_PREV( newLink[ pos ], newPrev );
        newPrev = pos;
    }
    else {
        newPrev = first = pos;
        // Special case of SET(newLink[ pos ], -1, -1);
        newLink[ pos ] = -1L;
    }

    t = i;
    i = GET_NEXT(link[ i ]);
    prev = t;
}

this.link = newLink;
this.last = newPrev;
if ( newPrev != -1 )
    // Special case of SET_NEXT( newLink[ newPrev ], -1 );
    newLink[ newPrev ] |= -1 & 0xFFFFFFFFL;
#else
int i = n, pos;

for( int j = realSize(); j-- != 0; ) {
    while( KEY_IS_NULL( key[ --i
] ) );
    if ( ! KEY_IS_NULL( newKey[ pos = KEY2INTHASH( key[ i ] ) & mask ] ) )
        while ( ! KEY_IS_NULL( newKey[ pos = ( pos + 1 ) & mask ] ) );
    newKey[ pos ] = key[ i ];
}
#endif

n = newN;
this.mask = mask;
maxFill = maxFill( n, f );
this.key = newKey;
}

```

```

/** Returns a deep copy of this set.
 *
 * <P>This method performs a deep copy of this hash set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this set.
 */

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_SET KEY_GENERIC clone() {
    OPEN_HASH_SET KEY_GENERIC c;
    try {
        c = (OPEN_HASH_SET KEY_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }
    c.key = key.clone();
    c.containsNull = containsNull;
#ifdef Linked
    c.link = link.clone();
#endif
#ifdef Custom
    c.strategy = strategy;
#endif
    return c;
}

```

```

/** Returns a hash code for this set.
 *
 * This method overrides the generic method provided by the superclass.
 * Since <code>equals()</code> is not overridden, it is important
 * that the value returned by this method is the same value as
 * the one returned by the overridden method.
 *
 * @return a hash code for this set.
 */

```

```

public int hashCode() {
    int h = 0;
    for( int j = realSize(), i = 0; j-- != 0; ) {
        while( KEY_IS_NULL( key[ i ] ) ) i++;
#ifdef keys(reference)
        if ( this != key[ i ] )

```

```

#endif
    h += KEY2JAVAHASH_NOT_NULL( key[ i ] );
    i++;
}

// Zero / null have hash zero.
return h;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
    final KEY_ITERATOR KEY_GENERIC i = iterator();
    s.defaultWriteObject();
    for( int j = size; j-- != 0; ) s.WRITE_KEY( i.NEXT_KEY() );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();

    n = arraySize( size,
    f );
    maxFill = maxFill( n, f );
    mask = n - 1;

    final KEY_GENERIC_TYPE key[] = this.key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ n + 1 ];
#ifdef Linked
    final long link[] = this.link = new long[ n + 1 ];
    int prev = -1;
    first = last = -1;
#endif

    KEY_GENERIC_TYPE k;

    for( int i = size, pos; i-- != 0; ) {

        k = KEY_GENERIC_CAST s.READ_KEY();

        if ( KEY_EQUALS_NULL( k ) ) {
            pos = n;
            containsNull = true;
        }
        else {
            if ( ! KEY_IS_NULL( key[ pos = KEY2INTHASH( k ) & mask ] ) )
                while ( ! KEY_IS_NULL( key[ pos = ( pos + 1 ) & mask ] ) );
        }
    }
}

```

```

key[ pos ] = k;

#ifdef Linked
if ( first != -1 ) {
    SET_NEXT( link[ prev ], pos );
    SET_PREV( link[ pos ], prev );
    prev = pos;
}
else {
    prev = first = pos;
    // Special case of SET_PREV( newLink[ pos ], -1 );
    link[ pos ] |= (-1L & 0xFFFFFFFFL) << 32;
}
#endif
}

#ifdef Linked
last = prev;
if ( prev != -1 )
    // Special case of SET_NEXT( link[ prev ], -1 );
    link[ prev
] |= -1 & 0xFFFFFFFFL;
#endif

if ( ASSERTS ) checkTable();
}

#ifdef ASSERTS_CODE
private void checkTable() {
    assert ( n & -n ) == n : "Table length is not a power of two: " + n;
    assert n == key.length - 1;
    int n = key.length - 1;
    while( n-- != 0 )
        if ( ! KEY_IS_NULL( key[ n ] ) && ! contains( key[ n ] ) )
            throw new AssertionError( "Hash table has key " + key[ n ] + " marked as occupied, but the key does not belong to
the table" );
}

#ifdef keys(primitive)
    java.util.HashSet<KEY_GENERIC_CLASS> s = new java.util.HashSet<KEY_GENERIC_CLASS> ();
#else
    java.util.HashSet<Object> s = new java.util.HashSet<Object>();
#endif

for( int i = key.length - 1; i-- != 0; )
    if ( ! KEY_IS_NULL( key[ i ] ) && ! s.add( key[ i ] ) ) throw new AssertionError( "Key " + key[ i ] + " appears
twice at position " + i );

```

```

#ifdef Linked
    KEY_LIST_ITERATOR KEY_GENERIC i = iterator();
    KEY_GENERIC_TYPE k;
    n = size();
    while( n-- != 0 )
        if ( ! contains( k = i.NEXT_KEY() ) )
            throw
            new AssertionError( "Linked hash table forward enumerates key " + k + ", but the key does not belong to the table"
            );

    if ( i.hasNext() ) throw new AssertionError( "Forward iterator not exhausted" );

    n = size();
    if ( n > 0 ) {
        i = iterator( LAST() );
        while( n-- != 0 )
            if ( ! contains( k = i.PREV_KEY() ) )
                throw new AssertionError( "Linked hash table backward enumerates key " + k + ", but the key does not belong to
                the table" );

        if ( i.hasPrevious() ) throw new AssertionError( "Previous iterator not exhausted" );
    }
#endif
}
#else
private void checkTable() {}
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #elif #keyclass(Object)
#ifdef Custom
        int i = r.nextInt( 3 );
        byte
        a[] = new byte[ i ];
        while( i-- != 0 ) a[ i ] = (byte)r.nextInt();
        return a;
    #else
        return Integer.toBinaryString( r.nextInt() );
    #endif
#endif
}

```

```

#else
    return new java.io.Serializable() {};
#endif
}

private static final class ArrayComparator implements java.util.Comparator {
    public int compare( Object a, Object b ) {
        byte[] aa = (byte[])a;
        byte[] bb = (byte[])b;
        int length = Math.min( aa.length, bb.length );
        for( int i = 0; i < length; i++ ) {
            if ( aa[ i ] < bb[ i ] ) return -1;
            if ( aa[ i ] > bb[ i ] ) return 1;
        }
        return aa.length == bb.length ? 0 : ( aa.length < bb.length ? -1 : 1 );
    }
}

private static final class MockSet extends java.util.TreeSet {
    private java.util.List list = new java.util.ArrayList();

    public MockSet( java.util.Comparator c ) { super( c ); }

    public boolean add( Object k ) {
        if ( ! contains( k ) ) list.add( k );
        return super.add( k );
    }

    public boolean addAll( Collection c ) {
        java.util.Iterator i = c.iterator();
        boolean
        result = false;
        while( i.hasNext() ) result |= add( i.next() );
        return result;
    }

    public boolean removeAll( Collection c ) {
        java.util.Iterator i = c.iterator();
        boolean result = false;
        while( i.hasNext() ) result |= remove( i.next() );
        return result;
    }

    public boolean remove( Object k ) {
        if ( contains( k ) ) {
            int i = list.size();
            while( i-- != 0 ) if ( comparator().compare( list.get( i ), k ) == 0 ) {

```

```

list.remove( i );
break;
}
}
return super.remove( k );
}

private void justRemove( Object k ) { super.remove( k ); }

public java.util.Iterator iterator() {
return new java.util.Iterator() {
final java.util.Iterator iterator = list.iterator();
Object curr;
public Object next() { return curr = iterator.next(); }
public boolean hasNext() { return iterator.hasNext(); }
public void remove() {
justRemove( curr );
iterator.remove();
}
};
}
}

private static
java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String format( double d ) {
StringBuffer s = new StringBuffer();
return format.format( d, s, fp ).toString();
}

private static void speedTest( int n, float f, boolean comp ) {
#ifdef Custom
int i, j;
OPEN_HASH_SET m;
#ifdef Linked
java.util.LinkedHashSet t;
#else
java.util.HashSet t;
#endif
#endif

KEY_TYPE k[] = new KEY_TYPE[n];
KEY_TYPE nk[] = new KEY_TYPE[n];
long ns;

for( i = 0; i < n; i++ ) {
k[i] = genKey();
}
}

```

```

nk[i] = genKey();
}

double totAdd = 0, totYes = 0, totNo = 0, totIter = 0, totRemYes = 0, totRemNo = 0, d;

if ( comp ) { for( j = 0; j < 20; j++ ) {

#ifdef Linked
    t = new java.util.LinkedHashSet( 16 );
#else
    t = new java.util.HashSet( 16 );
#endif

    /* We add pairs to t. */
    ns = System.nanoTime();
    for( i = 0; i < n; i++ ) t.add( KEY2OBJ( k[i] ) );
    d
    = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totAdd += d;
    System.out.print("Add: " + format( d ) + "ns " );

    /* We check for pairs in t. */
    ns = System.nanoTime();
    for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( k[i] ) );
    d = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totYes += d;
    System.out.print("Yes: " + format( d ) + "ns " );

    /* We check for pairs not in t. */
    ns = System.nanoTime();
    for( i = 0; i < n; i++ ) t.contains( KEY2OBJ( nk[i] ) );
    d = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totNo += d;
    System.out.print("No: " + format( d ) + "ns " );

    /* We iterate on t. */
    ns = System.nanoTime();
    for( java.util.Iterator it = t.iterator(); it.hasNext(); it.next() );
    d = ( System.nanoTime() - ns ) / (double)n;
    if ( j > 2 ) totIter += d;
    System.out.print("Iter: " + format( d ) + "ns " );

    // Too expensive in the linked case
#ifdef Linked
    /* We delete pairs not in t.
    */
    ns = System.nanoTime();
    for( i = 0; i < n; i++ ) t.remove( KEY2OBJ( nk[i] ) );

```

```

d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemNo += d;
System.out.print("RemNo: " + format( d ) + "ns " );

/* We delete pairs in t. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemYes += d;
System.out.print("RemYes: " + format( d ) + "ns " );
#endif

System.out.println();
}

System.out.println();
System.out.println( "java.util Add: " + format( totAdd/(j-3) ) + "ns Yes: " + format( totYes/(j-3) ) + "ns No: " +
format( totNo/(j-3) ) + "ns Iter: " + format( totIter/(j-3) ) + "ns RemNo: " + format( totRemNo/(j-3) ) + "ns RemYes:
" + format( totRemYes/(j-3) ) + "ns" );

System.out.println();

totAdd = totYes = totNo = totIter = totRemYes = totRemNo = 0;
}

for( j = 0; j < 20; j++ ) {

m = new OPEN_HASH_SET( 16, f );

/* We add
pairs to m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.add( k[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totAdd += d;
System.out.print("Add: " + format( d ) + "ns " );

/* We check for pairs in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.contains( k[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + "ns " );

/* We check for pairs not in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.contains( nk[i] );
d = ( System.nanoTime() - ns ) / (double)n;

```

```

if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + "ns " );

/* We iterate on m. */
ns = System.nanoTime();
for( KEY_ITERATOR it = (KEY_ITERATOR)m.iterator(); it.hasNext(); it.NEXT_KEY() );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totIter += d;
System.out.print("Iter: " + format( d ) + "ns " );

// Too expensive
in the linked case
#ifdef Linked
/* We delete pairs not in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.remove( nk[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemNo += d;
System.out.print("RemNo: " + format( d ) + "ns " );

/* We delete pairs in m. */
ns = System.nanoTime();
for( i = 0; i < n; i++ ) m.remove( k[i] );
d = ( System.nanoTime() - ns ) / (double)n;
if ( j > 2 ) totRemYes += d;
System.out.print("RemYes: " + format( d ) + "ns " );
#endif

System.out.println();
}

System.out.println();
System.out.println( "fastutil Add: " + format( totAdd/(j-3) ) + "ns Yes: " + format( totYes/(j-3) ) + "ns No: " +
format( totNo/(j-3) ) + "ns Iter: " + format( totIter/(j-3) ) + "ns RemNo: " + format( totRemNo/(j-3) ) + "ns RemYes:
" + format( totRemYes/(j-3) ) + "ns" );

System.out.println();
#endif
}

private static void fatal( String msg ) {
System.out.println( msg );
System.exit(
1 );
}

```

```

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static void printProbes( OPEN_HASH_SET m ) {
    long totProbes = 0;
    double totSquareProbes = 0;
    int maxProbes = 0;
    final double f = (double)m.size / m.n;
    for( int i = 0, c = 0; i < m.n; i++ ) {
        if ( ! KEY_IS_NULL( m.key[ i ] ) ) c++;
        else {
            if ( c != 0 ) {
                final long p = ( c + 1 ) * ( c + 2 ) / 2;
                totProbes += p;
                totSquareProbes += (double)p * p;
            }
            maxProbes = Math.max( c, maxProbes );
            c = 0;
            totProbes++;
            totSquareProbes++;
        }
    }

    final double expected = (double)totProbes / m.n;
    System.err.println( "Expected probes: " + (
        3 * Math.sqrt( 3 ) * ( f / ( ( 1 - f ) * ( 1 - f ) ) ) + 4 / ( 9 * f ) - 1
    ) + "; actual: " + expected + "; stddev: " + Math.sqrt( totSquareProbes / m.n - expected * expected ) + "; max
    probes: " + maxProbes );
}

private static void test( int n, float f ) {
    #if !defined(Custom)
    || #keys(reference)

    int c;
    #ifndef Custom
        OPEN_HASH_SET m = new OPEN_HASH_SET(Hash.DEFAULT_INITIAL_SIZE, f,
        it.unimi.dsi.fastutil.bytes.ByteArrays.HASH_STRATEGY);
    #else
        OPEN_HASH_SET m = new OPEN_HASH_SET(Hash.DEFAULT_INITIAL_SIZE, f);
    #endif
    #ifdef Linked
    #ifdef Custom
        java.util.Set t = new MockSet(new ArrayComparator());

```

```

#else
    java.util.Set t = new java.util.LinkedHashSet();
#endif
#else
#ifdef Custom
    java.util.Set t = new java.util.TreeSet(new ArrayComparator());
#else
    java.util.Set t = new java.util.HashSet();
#endif
#endif

/* First of all, we fill t with random data. */

for(int i=0; i<f * n; i++ ) t.add(KEY2OBJ(genKey()));

/* Now we add to m the same data */

m.addAll(t);

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after insertion");
printProbes( m );

/* Now we check that m actually holds that data. */

for(java.util.Iterator
i=t.iterator(); i.hasNext(); ) {
    Object e = i.next();
    if (!m.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on t)");
        System.exit( 1 );
    }
}

/* Now we check that m actually holds that data, but iterating on m. */

c = 0;
for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
    Object e = i.next();
    c++;
    if (!t.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on m)");
        System.exit( 1 );
    }
}

if ( c != t.size() ) {
    System.out.println("Error (" + seed + "): m has only " + c + " keys instead of " + t.size() + " after insertion (iterating

```

```

on m");
    System.exit( 1 );
}
/* Now we check that inquiries about random data give the same answer in m and t. For
   m we use the polymorphic method. */

for(int i=0; i<n; i++ ) {
    KEY_TYPE T = genKey();
    if (m.contains(T) != t.contains(KEY2OBJ(T)))
    {
        System.out.println("Error (" + seed + "): divergence in keys between t and m (polymorphic method)");
        System.exit( 1 );
    }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
   for m we use the standard method. */

for(int i=0; i<n; i++ ) {
    KEY_TYPE T = genKey();
    if (m.contains(KEY2OBJ(T)) != t.contains(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence between t and m (standard method)");
        System.exit( 1 );
    }
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++ ) {
    KEY_TYPE T = genKey();
    if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in add() between t and m");
        System.exit( 1 );
    }
    T = genKey();
    if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in remove() between t and m");
        System.exit(
1 );
    }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after removal");

/* Now we check that m actually holds that data. */

```

```

for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
    Object e = i.next();
    if (!m.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on t)");
        System.exit( 1 );
    }
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
    Object e = i.next();
    if (!t.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on m)");
        System.exit( 1 );
    }
}

printProbes( m );

/* Now we make m into an array, make it again a set and check it is OK. */
KEY_TYPE a[] = m.TO_KEY_ARRAY();

#ifdef
Custom
if (!new OPEN_HASH_SET(a, m.strategy()).equals(m))
    System.out.println("Error (" + seed + "): toArray() output (or array-based constructor) is not OK");
#else
if (!new OPEN_HASH_SET(a).equals(m))
    System.out.println("Error (" + seed + "): toArray() output (or array-based constructor) is not OK");
#endif

/* Now we check cloning. */

ensure( m.equals( ((OPEN_HASH_SET)m).clone() ), "Error (" + seed + "): m does not equal m.clone()" );
ensure( ((OPEN_HASH_SET)m).clone().equals( m ), "Error (" + seed + "): m.clone() does not equal m" );

int h = m.hashCode();

/* Now we save and read m. */

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();
}

```

```

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m
= (OPEN_HASH_SET)ois.readObject();
    ois.close();
    ff.delete();
}
catch(Exception e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if !#keyclass(Reference)
if (m.hashCode() != h) System.out.println("Error (" + seed + "): hashCode() changed after save/read");

printProbes( m );

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
    Object e = i.next();
    if (!t.contains(e)) {
        System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after save/read");
        System.exit( 1 );
    }
}
#else
m.clear();
m.addAll( t );
#endif

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();
    if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in add() between t and m after save/read");
        System.exit( 1
);
    }
    T = genKey();
    if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
        System.out.println("Error (" + seed + "): divergence in remove() between t and m after save/read");
        System.exit( 1 );
    }
}
}

```

```
if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after post-save/read removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after post-save/read removal");
```

```
#ifdef Linked
```

```
/* Now we play with iterators, but only in the linked case. */
```

```
{
  java.util.ListIterator i, j;
  Object I, J;
  i = (java.util.ListIterator)m.iterator();
  j = new java.util.LinkedList( t ).listIterator();

  for( int k = 0; k < 2*n; k++ ) {
    ensure( i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext()" );
    ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious()" );

    if ( r.nextFloat() < .8 && i.hasNext() ) {
#ifdef Custom
      ensure( m.strategy().equals( i.next(),
        J = j.next() ), "Error (" + seed + "): divergence in next()" );
#else
      ensure( i.next().equals( J = j.next() ), "Error (" + seed + "): divergence in next()" );
#endif
    }
    if ( r.nextFloat() < 0.5 ) {
      i.remove();
      j.remove();
      t.remove( J );
    }
    else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
#ifdef Custom
      ensure( m.strategy().equals( i.previous(), J = j.previous() ), "Error (" + seed + "): divergence in previous()" );
#else
      ensure( i.previous().equals( J = j.previous() ), "Error (" + seed + "): divergence in previous()" );
#endif
    }
    if ( r.nextFloat() < 0.5 ) {
      i.remove();
      j.remove();
      t.remove( J );
    }
  }

  ensure( i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex()" );
  ensure( i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex()" );
```

```

    }

}

if ( t.size() > 0 ) {
    java.util.ListIterator i, j;
    Object J;
    j = new java.util.LinkedList(
t ).listIterator();
    int e = r.nextInt( t.size() );
    Object from;
    do from = j.next(); while( e-- != 0 );

    i = (java.util.ListIterator)m.iterator( KEY_OBJ2TYPE( from ) );

    for( int k = 0; k < 2*n; k++ ) {
        ensure( i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext() (iterator with starting point " +
from + ")" );
        ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious() (iterator with starting
point " + from + ")" );

        if ( r.nextFloat() < .8 && i.hasNext() ) {
#ifdef Custom
            ensure( m.strategy().equals( i.next(), J = j.next() ), "Error (" + seed + "): divergence in next() (iterator with starting
point " + from + ")" );
#else
            ensure( i.next().equals( J = j.next() ), "Error (" + seed + "): divergence in next() (iterator with starting point " + from
+ ")" );
#endif
        }

        if ( r.nextFloat() < 0.5 ) {
            i.remove();
            j.remove();
            t.remove( J );
        }
        else if
( r.nextFloat() < .2 && i.hasPrevious() ) {
#ifdef Custom
            ensure( m.strategy().equals( i.previous(), J = j.previous() ), "Error (" + seed + "): divergence in previous() (iterator
with starting point " + from + ")" );
#else
            ensure( i.previous().equals( J = j.previous() ), "Error (" + seed + "): divergence in previous() (iterator with starting
point " + from + ")" );
#endif
        }

        if ( r.nextFloat() < 0.5 ) {

```

```

        i.remove();
        j.remove();
        t.remove( J );
    }
}

    ensure( i.nextIndex() == j.nextIndex(), "Error ( " + seed + " ): divergence in nextIndex() (iterator with starting point "
+ from + " )" );
    ensure( i.previousIndex() == j.previousIndex(), "Error ( " + seed + " ): divergence in previousIndex() (iterator with
starting point " + from + " )" );

}

}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error ( " + seed + " ): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error ( " + seed + " ): ! t.equals( m )
after iteration" );

#endif

/* Now we take out of m everything, and check that it is empty. */

for(java.util.Iterator i=m.iterator(); i.hasNext(); ) { i.next(); i.remove();}

if (!m.isEmpty()) {
    System.out.println("Error ( " + seed + " ): m is not empty (as it should be)");
    System.exit( 1 );
}

#if #keyclass(Integer) || #keyclass(Long)
    m = new OPEN_HASH_SET(n, f);
    t.clear();
    int x;

/* Now we torture-test the hash table. This part is implemented only for integers and longs. */

    int p = m.key.length - 1;

    for(int i=0; i<p; i++) {
        for (int j=0; j<20; j++) {
            m.add(i+(r.nextInt() % 10)*p);
            m.remove(i+(r.nextInt() % 10)*p);
        }
    }
}

```

```

    for (int j=-10; j<10; j++) m.remove(i+j*p);
}

t.addAll(m);

/* Now all table entries are REMOVED. */

int k = 0;
for(int i=0; i<(p*f)/10; i++) {
    for (int j=0; j<10; j++) {
        k++;
        x = i+(r.nextInt() % 10)*p;
        if (m.add(x) != t.add(KEY2OBJ(x)))
            System.out.println("Error (" + seed + "): m and
t differ on a key during torture-test insertion.");
    }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test insertion");

for(int i=0; i<(p*f)/10; i++) {
    for (int j=0; j<10; j++) {
        x = i+(r.nextInt() % 10)*p;
        if (m.remove(x) != t.remove(KEY2OBJ(x)))
            System.out.println("Error (" + seed + "): m and t differ on a key during torture-test removal.");
    }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test removal");

if (!m.equals(m.clone())) System.out.println("Error (" + seed + "): !m.equals(m.clone()) after torture-test removal");
if (!(OPEN_HASH_SET)m.clone().equals(m)) System.out.println("Error (" + seed + "): !m.clone().equals(m) after
torture-test removal");

m.rehash();

if
(!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after rehash()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after rehash()");

m.trim();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after trim()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after trim()");
#endif

```

```

System.out.println("Test OK");
return;
#endif
}

public static void main( String args[] ) {
float f = Hash.DEFAULT_LOAD_FACTOR;
int n = Integer.parseInt(args[1]);
if (args.length>2) f = Float.parseFloat(args[2]);
if ( args.length > 3 ) r = new java.util.Random( seed = Long.parseLong( args[ 3 ] ) );

try {
if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, f, "speedComp".equals(args[0]) );
else if ( "test".equals( args[0] ) ) test(n, f);
} catch( Throwable e ) {
e.printStackTrace( System.err );
System.err.println( "seed: " +
seed );
}
}

#endif
}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenCustomHashSet.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/LinkedOpenCustomHashSet.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenHashSet.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/LinkedOpenHashSet.drv
No license file was found, but licenses were detected in source scan.

```

/*

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*/

package PACKAGE;

import java.util.SortedSet;

import java.util.NoSuchElementException;

#if #keys(reference)

import java.util.Comparator;

#endif

/** A class providing static methods and objects that do useful things with type-specific sorted sets.

*

* @see java.util.Collections

*/

public class SORTED_SETS {

private

SORTED_SETS() {}

/** An immutable class representing the empty sorted set and implementing a type-specific set interface.

*

* <P>This class may be useful to implement your own in case you subclass

* a type-specific sorted set.

*/

public static class EmptySet KEY_GENERIC extends SETS.EmptySet KEY_GENERIC implements
SORTED_SET KEY_GENERIC, java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

protected EmptySet() {}

public boolean remove(KEY_TYPE ok) { throw new UnsupportedOperationException(); }

@Deprecated

public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

SUPPRESS_WARNINGS_KEY_UNCHECKED

public KEY_BIDI_ITERATOR KEY_GENERIC iterator(KEY_GENERIC_TYPE from) { return
ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED

public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to) {
return EMPTY_SET; }

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public
SORTED_SET KEY_GENERIC headSet( KEY_GENERIC_TYPE from ) { return EMPTY_SET; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public SORTED_SET KEY_GENERIC tailSet( KEY_GENERIC_TYPE to ) { return EMPTY_SET; }

public KEY_GENERIC_TYPE FIRST() { throw new NoSuchElementException(); }
public KEY_GENERIC_TYPE LAST() { throw new NoSuchElementException(); }

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

#if #keys(primitive)
public SORTED_SET KEY_GENERIC subSet( KEY_GENERIC_CLASS from, KEY_GENERIC_CLASS to ) {
return EMPTY_SET; }
public SORTED_SET KEY_GENERIC headSet( KEY_GENERIC_CLASS from ) { return EMPTY_SET; }
public SORTED_SET KEY_GENERIC tailSet( KEY_GENERIC_CLASS to ) { return EMPTY_SET; }

public KEY_GENERIC_CLASS first() { throw new NoSuchElementException(); }
public KEY_GENERIC_CLASS last() { throw new NoSuchElementException(); }
#endif

public Object clone() { return EMPTY_SET; }

private Object readResolve() { return EMPTY_SET; }
}

/**
An empty sorted set (immutable). It is serializable and cloneable.
*
* <P>The class of this objects represent an abstract empty set
* that is a subset of a (sorted) type-specific set.
*/

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptySet EMPTY_SET = new EmptySet();

/** A class representing a singleton sorted set.
*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific sorted set.
*/

public static class Singleton KEY_GENERIC extends SETS.Singleton KEY_GENERIC implements SORTED_SET
KEY_GENERIC, java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

```

```

final KEY_COMPARATOR KEY_SUPER_GENERIC comparator;

private Singleton( final KEY_GENERIC_TYPE element, final KEY_COMPARATOR KEY_SUPER_GENERIC
comparator ) {
    super( element );
    this.comparator = comparator;
}

private Singleton( final KEY_GENERIC_TYPE element ) {
    this( element, null );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
final
int compare( final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2 ) {
    return comparator == null ? KEY_CMP( k1, k2 ) : comparator.compare( k1, k2 );
}

@Deprecated
public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() {
    return iterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator( KEY_GENERIC_TYPE from ) {
    KEY_BIDI_ITERATOR KEY_GENERIC i = iterator();
    if ( compare( element, from ) <= 0 ) i.next();
    return i;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return comparator; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to ) { if ( compare( from, element ) <= 0 && compare( element, to ) < 0 ) return this; return EMPTY_SET; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) { if ( compare( element, to ) < 0
) return this; return EMPTY_SET; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public
SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) { if ( compare( from, element ) <= 0
) return this; return EMPTY_SET; }

public KEY_GENERIC_TYPE FIRST() { return element; }
public KEY_GENERIC_TYPE LAST() { return element; }

```

```

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS first() { return KEY2OBJ( element ); }
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS last() { return KEY2OBJ( element ); }

/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC subSet( final KEY_CLASS from, final KEY_CLASS to ) { return subSet(
KEY_CLASS2TYPE( from ), KEY_CLASS2TYPE( to ) ); }
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public
SORTED_SET KEY_GENERIC headSet( final KEY_CLASS to ) { return headSet( KEY_CLASS2TYPE( to ) ); }
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC tailSet( final KEY_CLASS from ) { return tailSet( KEY_CLASS2TYPE(
from ) ); }
#endif
}

```

/** Returns a type-specific immutable sorted set containing only the specified element. The returned sorted set is serializable and cloneable.

*

* @param element the only element of the returned sorted set.

* @return a type-specific immutable sorted set containing just `element`.

*/

```

public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton( final KEY_GENERIC_TYPE element ) {
return new Singleton KEY_GENERIC( element );
}

```

/** Returns a type-specific immutable sorted set containing only the specified element, and using a specified comparator. The returned sorted set is serializable and cloneable.

*

* @param element the only element
of the returned sorted set.

* @param comparator the comparator to use in the returned sorted set.

* @return a type-specific immutable sorted set containing just `element`.

```

*/

public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton( final KEY_GENERIC_TYPE element,
final KEY_COMPARATOR KEY_SUPER_GENERIC comparator ) {
    return new Singleton KEY_GENERIC( element, comparator );
}

#if #keys(primitive)

/** Returns a type-specific immutable sorted set containing only the specified element. The returned sorted set is
serializable and cloneable.
*
* @param element the only element of the returned sorted set.
* @return a type-specific immutable sorted set containing just <code>element</code>.
*/

public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton( final Object element ) {
    return new Singleton( KEY_OBJ2TYPE( element ) );
}

/** Returns a type-specific immutable sorted set containing only the specified element, and using a specified
comparator.
The returned sorted set is serializable and cloneable.
*
* @param element the only element of the returned sorted set.
* @param comparator the comparator to use in the returned sorted set.
* @return a type-specific immutable sorted set containing just <code>element</code>.
*/

public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton( final Object element, final
KEY_COMPARATOR KEY_SUPER_GENERIC comparator ) {
    return new Singleton( KEY_OBJ2TYPE( element ), comparator );
}
#endif

/** A synchronized wrapper class for sorted sets. */

public static class SynchronizedSortedSet KEY_GENERIC extends SETS.SynchronizedSet KEY_GENERIC
implements SORTED_SET KEY_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final SORTED_SET KEY_GENERIC sortedSet;

    protected SynchronizedSortedSet( final SORTED_SET KEY_GENERIC s, final Object sync ) {
        super( s, sync );
        sortedSet = s;
    }

```

```

    }

    protected SynchronizedSortedSet(
    final SORTED_SET KEY_GENERIC s ) {
        super( s );
        sortedSet = s;
    }

    public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { synchronized( sync ) { return
sortedSet.comparator(); } }

    public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to ) { return new SynchronizedSortedSet KEY_GENERIC( sortedSet.subSet( from, to ), sync ); }
    public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) { return new
SynchronizedSortedSet KEY_GENERIC( sortedSet.headSet( to ), sync ); }
    public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) { return new
SynchronizedSortedSet KEY_GENERIC( sortedSet.tailSet( from ), sync ); }

    public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return sortedSet.iterator(); }
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return
sortedSet.iterator( from ); }

    @Deprecated
    public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return sortedSet.iterator(); }

    public
    KEY_GENERIC_TYPE FIRST() { synchronized( sync ) { return sortedSet.FIRST(); } }
    public KEY_GENERIC_TYPE LAST() { synchronized( sync ) { return sortedSet.LAST(); } }

    #if #keys(primitive)
    public KEY_CLASS first() { synchronized( sync ) { return sortedSet.first(); } }
    public KEY_CLASS last() { synchronized( sync ) { return sortedSet.last(); } }

    public SORTED_SET KEY_GENERIC subSet( final KEY_CLASS from, final KEY_CLASS to ) { return new
SynchronizedSortedSet( sortedSet.subSet( from, to ), sync ); }
    public SORTED_SET KEY_GENERIC headSet( final KEY_CLASS to ) { return new SynchronizedSortedSet(
sortedSet.headSet( to ), sync ); }
    public SORTED_SET KEY_GENERIC tailSet( final KEY_CLASS from ) { return new SynchronizedSortedSet(
sortedSet.tailSet( from ), sync ); }
    #endif
    }

    /** Returns a synchronized type-specific sorted set backed by the given type-specific sorted set.
    *
    * @param s the sorted set to be wrapped in a synchronized sorted set.
    * @return a synchronized

```

```

view of the specified sorted set.
 * @see java.util.Collections#synchronizedSortedSet(SortedSet)
 */
public static KEY_GENERIC SORTED_SET KEY_GENERIC synchronize( final SORTED_SET KEY_GENERIC
s ) { return new SynchronizedSortedSet KEY_GENERIC( s ); }

/** Returns a synchronized type-specific sorted set backed by the given type-specific sorted set, using an assigned
object to synchronize.
 *
 * @param s the sorted set to be wrapped in a synchronized sorted set.
 * @param sync an object that will be used to synchronize the access to the sorted set.
 * @return a synchronized view of the specified sorted set.
 * @see java.util.Collections#synchronizedSortedSet(SortedSet)
 */

public static KEY_GENERIC SORTED_SET KEY_GENERIC synchronize( final SORTED_SET KEY_GENERIC
s, final Object sync ) { return new SynchronizedSortedSet KEY_GENERIC( s, sync ); }

/** An unmodifiable wrapper class for sorted sets. */

public static class UnmodifiableSortedSet KEY_GENERIC extends SETS.UnmodifiableSet
KEY_GENERIC implements SORTED_SET KEY_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final SORTED_SET KEY_GENERIC sortedSet;

protected UnmodifiableSortedSet( final SORTED_SET KEY_GENERIC s ) {
super( s );
sortedSet = s;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return sortedSet.comparator(); }

public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to ) { return new UnmodifiableSortedSet KEY_GENERIC( sortedSet.subSet( from, to ) ); }
public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) { return new
UnmodifiableSortedSet KEY_GENERIC( sortedSet.headSet( to ) ); }
public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) { return new
UnmodifiableSortedSet KEY_GENERIC( sortedSet.tailSet( from ) ); }

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return ITERATORS.unmodifiable( sortedSet.iterator()
); }
public

```

```

KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return
ITERATORS.unmodifiable( sortedSet.iterator( from ) ); }

@Deprecated
public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

public KEY_GENERIC_TYPE FIRST() { return sortedSet.FIRST(); }
public KEY_GENERIC_TYPE LAST() { return sortedSet.LAST(); }

#if #keys(primitive)
public KEY_CLASS first() { return sortedSet.first(); }
public KEY_CLASS last() { return sortedSet.last(); }

public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to ) { return new UnmodifiableSortedSet( sortedSet.subSet( from, to ) ); }
public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_CLASS to ) { return new
UnmodifiableSortedSet( sortedSet.headSet( to ) ); }
public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_CLASS from ) { return new
UnmodifiableSortedSet( sortedSet.tailSet( from ) ); }
#endif
}

/** Returns an unmodifiable type-specific
sorted set backed by the given type-specific sorted set.
*
* @param s the sorted set to be wrapped in an unmodifiable sorted set.
* @return an unmodifiable view of the specified sorted set.
* @see java.util.Collections#unmodifiableSortedSet(SortedSet)
*/
public static KEY_GENERIC SORTED_SET KEY_GENERIC unmodifiable( final SORTED_SET
KEY_GENERIC s ) { return new UnmodifiableSortedSet KEY_GENERIC( s ); }

#if defined(TEST) && ! #keyclass( Reference )

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString( r.nextInt() );
#endif
}

```

```

protected static void testSets( KEY_TYPE k, SORTED_SET m, SortedSet t, int level ) {
    int n = 100;
    int c;

    long ms;
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsIndex, tThrowsIndex,
    mThrowsUnsupp, tThrowsUnsupp;
    boolean
    rt = false, rm = false;

    if ( level == 0 ) return;

    /* Now we check that m and t are equal. */
    if ( !m.equals( t ) || !t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

    ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
    ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );

    /* Now we check that m actually holds that data. */
    for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
        ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
    }

    /* Now we check that m actually holds that data, but iterating on m. */
    for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
        ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)" );
    }

    /* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

    for(int i=0; i<n; i++) {
        KEY_TYPE T = genKey();

        mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

        try {
            m.contains(T);
        }
        catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
        catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
        catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }

        try {

```

```

    t.contains(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", "
+ seed + "): contains() divergence in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " +
tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex ) ensure( m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic
method) " + m );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        m.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true;
}
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        t.contains(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );

```

```

    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level
+ ", " + seed + "): contains() divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " +
tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): contains() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t
and m (standard method) " + m );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        rm = m.add(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch (
IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.add(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() divergence
in IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in add() between t and m " + m );

    T = genKey();

```

```
mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
try {
    rm = m.remove(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }
```

```
try {
    rt = t.remove(KEY2OBJ(T));
}
catch
( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }
```

```
if ( ! KEY_EQUALS( T, k ) && ! mThrowsUnsupp && tThrowsUnsupp ) mThrowsUnsupp = false; // Stupid bug
in Collections.singleton()
```

```
ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", "
+ tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in remove() between t and m " + m );
}
```

```
ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal " + m );
```

```
/* Now we add and remove random collections in m and t, checking that the result is the same. */
```

```
for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();
```

```
mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
try {
```

```

    rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch
( NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal
+ ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() between t and m " + m );

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
    rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
}
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }

```

```

catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): removeAll() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): removeAll()
divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): removeAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in removeAll() between t and m " + m );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after set removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after set removal " + m );

/* Now we check that m actually holds the same data. */

for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check
that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext(); ) {
ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

if ( m instanceof Singleton ) {
ensure( m.equals( ((Singleton)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal m.clone()");
ensure( ((Singleton)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_SET m2 = null;

try {
java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

```

```

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m2
= (SORTED_SET)ois.readObject();
    ois.close();
    ff.delete();
}
catch(Exception e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if ! #keyclass(Reference)

ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
#endif

/* Now we select a pair of keys and create a subset. */

if ( ! m.isEmpty() ) {
    java.util.ListIterator i;
    Object start = m.first(), end = m.first();
    for( i = (java.util.ListIterator)m.iterator(); i.hasNext() && r.nextBoolean(); start = end = i.next() );
    for( ; i.hasNext() && r.nextBoolean(); end = i.next() );

    //System.err.println("Checking subSet from " + start + " to " + end + " (level=" + (level+1) +
    "...");
    testSets( k, (SORTED_SET)m.subSet( (KEY_CLASS)start, (KEY_CLASS)end ), t.subSet( start, end ), level - 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after subSet" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subSet" );

    //System.err.println("Checking headSet to " + end + " (level=" + (level+1) + "...");
    testSets( k, (SORTED_SET)m.headSet( (KEY_CLASS)end ), t.headSet( end ), level - 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after headSet" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after headSet" );
}

```

```

//System.err.println("Checking tailSet from " + start + " (level=" + (level+1) + ")..." );
testSets( k, (SORTED_SET)m.tailSet( (KEY_CLASS)start ), t.tailSet( start ), level - 1 );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after tailSet" );
ensure( t.equals(m),
"Error (" + level + ", " + seed + "): ! t.equals( m ) after tailSet" );
}

return;
}

private static void test() {
    KEY_TYPE k = genKey();
    Singleton m = new Singleton( k );
    SortedSet u = new java.util.TreeSet();
    u.add( KEY2OBJ( k ) );
    testSets( k, m, java.util.Collections.unmodifiableSortedSet( u ), 2 );
    System.out.println("Test OK");
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, fp ).toString();
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

/** This
method expects as first argument a lower-cased type (e.g., "int"),
* and as second optional argument a seed. */

public static void main( String arg[] ) throws Exception {
    if ( arg.length > 1 ) r = new java.util.Random( seed = Long.parseLong( arg[ 1 ] ) );
}

```

```
try {
    test();
} catch( Throwable e ) {
    e.printStackTrace( System.err );
    System.err.println( "seed: " + seed );
}
}
```

#endif

}

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedSets.drv

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Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/bytes/AbstractByteSortedSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/IndirectDoublePriorityQueues.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/IndirectPriorityQueues.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/floats/FloatPriorityQueues.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/longs/LongPriorityQueues.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/longs/AbstractLongSortedSet.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

```
jar/it/unimi/dsi/fastutil/floats/AbstractFloatSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReferenceSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntPriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/BytePriorityQueues.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractIntSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoublePriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/Maps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObjectSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharPriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleSortedSet.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortPriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/PriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharSortedSet.java
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* limitations under the License.
*/
```

```
package PACKAGE;
```

```
/** An abstract class facilitating the creation of type-specific { @linkplain java.util.Comparator comparators }.  
 *  
 * <P>To create a type-specific comparator you need both a method comparing  
 * primitive types and a method comparing objects. However, if you have the  
 * first one you can just inherit  
 * from this class and get for free the second  
 * one.  
 *  
 * @see java.util.Comparator  
 */
```

```
public abstract class KEY_ABSTRACT_COMPARATOR KEY_GENERIC implements KEY_COMPARATOR  
KEY_GENERIC, java.io.Serializable {  
    private static final long serialVersionUID = 0L;  
  
    protected KEY_ABSTRACT_COMPARATOR() {}  
  
    public int compare( KEY_GENERIC_CLASS ok1, KEY_GENERIC_CLASS ok2 ) {  
        return compare( ok1.KEY_VALUE(), ok2.KEY_VALUE() );  
    }  
  
    public abstract int compare( KEY_TYPE k1, KEY_TYPE k2 );  
}
```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractComparator.drv
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 * See the License for the specific language governing permissions and  
 * limitations under the License.  
 */
```

```
package PACKAGE;
```

```

/** A class providing static methods and objects that do useful things with type-specific functions.
 *
 * @see it.unimi.dsi.fastutil.Function
 * @see java.util.Collections
 */

public class FUNCTIONS {

    private FUNCTIONS() {}

    /** An immutable class representing an empty type-specific function.

    *
    * <P>This class may be useful to implement your own in case you subclass
    * a type-specific function.
    */

    public static class EmptyFunction KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
    KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

        private static final long serialVersionUID = -7046029254386353129L;

        protected EmptyFunction() {}

        public VALUE_GENERIC_TYPE GET_VALUE( final KEY_TYPE k ) { return VALUE_NULL; }

        public boolean containsKey( final KEY_TYPE k ) { return false; }

        public VALUE_GENERIC_TYPE defaultReturnValue() { return VALUE_NULL; }
        public void defaultReturnValue( final VALUE_GENERIC_TYPE defRetVal ) { throw new
        UnsupportedOperationException(); }

        #if #keys(primitive)
        #if #values(primitive)
        /** { @inheritDoc }
         * @deprecated Please use the corresponding type-specific method instead. */
        @Deprecated
        #endif
        #endif
        @Override
        public VALUE_GENERIC_CLASS get( final Object k ) { return null; }
        #endif

        public int size() { return 0; }
        public
        void clear() {}

```

```

private Object readResolve() { return EMPTY_FUNCTION; }

public Object clone() { return EMPTY_FUNCTION; }
}

/** An empty type-specific function (immutable). It is serializable and cloneable. */

SUPPRESS_WARNINGS_KEY_VALUE_RAWTYPES
public static final EmptyFunction EMPTY_FUNCTION = new EmptyFunction();

/** An immutable class representing a type-specific singleton function.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific function.
 */

public static class Singleton KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

protected final KEY_GENERIC_TYPE key;
protected final VALUE_GENERIC_TYPE value;

protected Singleton( final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value ) {
this.key = key;
this.value = value;
}

public boolean containsKey( final
KEY_TYPE k ) { return KEY_EQUALS( key, k ); }

public VALUE_GENERIC_TYPE GET_VALUE( final KEY_TYPE k ) { if ( KEY_EQUALS( key, k ) ) return
value; return defRetVal; }

public int size() { return 1; }

public Object clone() { return this; }
}

/** Returns a type-specific immutable function containing only the specified pair. The returned function is
serializable and cloneable.
 *
 * <P>Note that albeit the returned function is immutable, its default return value may be changed.
 */

```

```

* @param key the only key of the returned function.
* @param value the only value of the returned function.
* @return a type-specific immutable function containing just the pair <code>&lt;key,value&gt;</code>.
*/

public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC singleton( final
KEY_GENERIC_TYPE key, VALUE_GENERIC_TYPE value ) {
    return new Singleton KEY_VALUE_GENERIC( key, value );
}

#if #keys(primitive) || #values(primitive)

/** Returns a type-specific immutable function
containing only the specified pair. The returned function is serializable and cloneable.
*
* <P>Note that albeit the returned function is immutable, its default return value may be changed.
*
* @param key the only key of the returned function.
* @param value the only value of the returned function.
* @return a type-specific immutable function containing just the pair <code>&lt;key,value&gt;</code>.
*/

public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC singleton( final
KEY_GENERIC_CLASS key, final VALUE_GENERIC_CLASS value ) {
    return new Singleton KEY_VALUE_GENERIC( KEY_CLASS2TYPE( key ), VALUE_CLASS2TYPE( value ) );
}

#endif

/** A synchronized wrapper class for functions. */

public static class SynchronizedFunction KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final FUNCTION KEY_VALUE_GENERIC function;
    protected final
Object sync;

    protected SynchronizedFunction( final FUNCTION KEY_VALUE_GENERIC f, final Object sync ) {
        if ( f == null ) throw new NullPointerException();
        this.function = f;
        this.sync = sync;
    }

    protected SynchronizedFunction( final FUNCTION KEY_VALUE_GENERIC f ) {

```

```

if ( f == null ) throw new NullPointerException();
this.function = f;
this.sync = this;
}

public int size() { synchronized( sync ) { return function.size(); } }
public boolean containsKey( final KEY_TYPE k ) { synchronized( sync ) { return function.containsKey( k ); } }

public VALUE_GENERIC_TYPE defaultReturnValue() { synchronized( sync ) { return
function.defaultReturnValue(); } }
public void defaultReturnValue( final VALUE_GENERIC_TYPE defRetVal ) { synchronized( sync ) {
function.defaultReturnValue( defRetVal ); } }

public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
synchronized( sync ) { return function.put( k, v ); } }

public void clear()
{ synchronized( sync ) { function.clear(); } }
public String toString() { synchronized( sync ) { return function.toString(); } }

#if #keys(primitive) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS k, final VALUE_GENERIC_CLASS v ) {
synchronized( sync ) { return function.put( k, v ); } }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
@Override
public VALUE_GENERIC_CLASS get( final Object k ) { synchronized( sync ) { return function.get( k ); } }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
@Override
public VALUE_GENERIC_CLASS remove( final Object k ) { synchronized( sync ) { return function.remove( k ); }
}
#endif

#if #keys(primitive)
@Override
public

```

```

VALUE_GENERIC_TYPE remove( final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return
function.remove( k ); } }

@Override
public VALUE_GENERIC_TYPE get( final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return
function.get( k ); } }
public boolean containsKey( final Object ok ) { synchronized( sync ) { return function.containsKey( ok ); } }
#endif

#if #keys(reference)
@Override
public VALUE_GENERIC_TYPE REMOVE_VALUE( final Object k ) { synchronized( sync ) { return
function.REMOVE_VALUE( k ); } }

@Override
public VALUE_GENERIC_TYPE GET_VALUE( final Object k ) { synchronized( sync ) { return
function.GET_VALUE( k ); } }
#endif

}

/** Returns a synchronized type-specific function backed by the given type-specific function.
*
* @param f the function to be wrapped in a synchronized function.
* @return a synchronized view of the specified function.
* @see java.util.Collections#synchronizedMap(java.util.Map)
*/
public static KEY_VALUE_GENERIC
FUNCTION KEY_VALUE_GENERIC synchronize( final FUNCTION KEY_VALUE_GENERIC f ) { return new
SynchronizedFunction KEY_VALUE_GENERIC( f ); }

/** Returns a synchronized type-specific function backed by the given type-specific function, using an assigned
object to synchronize.
*
* @param f the function to be wrapped in a synchronized function.
* @param sync an object that will be used to synchronize the access to the function.
* @return a synchronized view of the specified function.
* @see java.util.Collections#synchronizedMap(java.util.Map)
*/

public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC synchronize( final FUNCTION
KEY_VALUE_GENERIC f, final Object sync ) { return new SynchronizedFunction KEY_VALUE_GENERIC( f,
sync ); }

/** An unmodifiable wrapper class for functions. */

```

```

public static class UnmodifiableFunction KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable {

    private static final long serialVersionUID
= -7046029254386353129L;

    protected final FUNCTION KEY_VALUE_GENERIC function;

    protected UnmodifiableFunction( final FUNCTION KEY_VALUE_GENERIC f ) {
        if ( f == null ) throw new NullPointerException();
        this.function = f;
    }

    public int size() { return function.size(); }
    public boolean containsKey( final KEY_TYPE k ) { return function.containsKey( k ); }

    public VALUE_GENERIC_TYPE defaultReturnValue() { return function.defaultReturnValue(); }
    public void defaultReturnValue( final VALUE_GENERIC_TYPE defRetVal ) { throw new
UnsupportedOperationException(); }

    public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
throw new UnsupportedOperationException(); }

    public void clear() { throw new UnsupportedOperationException(); }
    public String toString() { return function.toString(); }

    #if #keys(primitive)
    #if #values(primitive)
    /** { @inheritDoc }
    * @deprecated Please use the corresponding type-specific method instead.
    */
    @Deprecated
    #endif
    @Override
    public VALUE_GENERIC_TYPE remove( final KEY_GENERIC_TYPE k ) { throw new
UnsupportedOperationException(); }
    #if #values(primitive)
    /** { @inheritDoc }
    * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
    #endif
    @Override
    public VALUE_GENERIC_TYPE get( final KEY_GENERIC_TYPE k ) { return function.get( k ); }
    public boolean containsKey( final Object ok ) { return function.containsKey( ok ); }
    #endif

    #if #keys(reference) || #values(reference)
    @Override

```

```

public VALUE_GENERIC_TYPE REMOVE_VALUE( final Object k ) { throw new
UnsupportedOperationException(); }
@Override
public VALUE_GENERIC_TYPE GET_VALUE( final Object k ) { return function.GET_VALUE( k ); }
#endif

}

/** Returns an unmodifiable type-specific function backed by the given type-specific function.
 *
 * @param f the function to be wrapped in an unmodifiable function.
 * @return an unmodifiable view of the specified function.
 * @see
java.util.Collections#unmodifiableMap(java.util.Map)
 */
public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC unmodifiable( final FUNCTION
KEY_VALUE_GENERIC f ) { return new UnmodifiableFunction KEY_VALUE_GENERIC( f ); }
}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Functions.drv
No license file was found, but licenses were detected in source scan.

```

```

/*
 * Copyright (C) 2002-2015 Sebastiano Vigna
 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package PACKAGE;

```

```

import java.lang.Iterable;

```

```

/** A type-specific { @link Iterable } that strengthens that specification of { @link Iterable#iterator() }.
 *
 * <p><strong>Warning</strong>: Java will let you write &ldquo;colon&rdquo; <code>for</code> statements with
primitive-type

```

* loop variables; however, what is (unfortunately)
really happening is that at each iteration an
* unboxing (and, in the case of `fastutil` type-specific data structures, a boxing) will be performed.

Watch out.

*

* @see Iterable

*/

```
public interface KEY_ITERABLE KEY_GENERIC extends Iterable<KEY_GENERIC_CLASS> {
```

```
    /** Returns a type-specific iterator.
```

```
    *
```

```
    * Note that this specification strengthens the one given in { @link Iterable#iterator() }.
```

```
    *
```

```
    * @return a type-specific iterator.
```

```
    */
```

```
    KEY_ITERATOR KEY_GENERIC iterator();
```

```
}
```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Iterable.drv

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```
/*
```

```
* Copyright (C) 2003-2015 Sebastiano Vigna
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

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```
*
```

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```
*
```

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* Unless required by applicable law or agreed to in writing, software
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* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
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```

```
* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
/** A class providing static methods and objects that do useful things with type-specific priority queues.
```

```
*
```

```
* @see it.unimi.dsi.fastutil.PriorityQueue
```

```
*/
```

```
public class PRIORITY_QUEUES {
```

```

private PRIORITY_QUEUES() {}

/** A synchronized wrapper class for priority queues. */

public static class
SynchronizedPriorityQueue KEY_GENERIC implements PRIORITY_QUEUE KEY_GENERIC {
    final protected PRIORITY_QUEUE KEY_GENERIC q;
    final protected Object sync;

    protected SynchronizedPriorityQueue( final PRIORITY_QUEUE KEY_GENERIC q, final Object sync ) {
        this.q = q;
        this.sync = sync;
    }

    protected SynchronizedPriorityQueue( final PRIORITY_QUEUE KEY_GENERIC q ) {
        this.q = q;
        this.sync = this;
    }

    public void enqueue( KEY_GENERIC_TYPE x ) { synchronized( sync ) { q.enqueue( x ); } }
    public KEY_GENERIC_TYPE DEQUEUE() { synchronized( sync ) { return q.DEQUEUE(); } }
    public KEY_GENERIC_TYPE FIRST() { synchronized( sync ) { return q.FIRST(); } }
    public KEY_GENERIC_TYPE LAST() { synchronized( sync ) { return q.LAST(); } }
    public boolean isEmpty() { synchronized( sync ) { return q.isEmpty(); } }
    public int size() { synchronized( sync ) { return q.size(); } }
    public void clear() { synchronized( sync ) { q.clear(); } }
    public void changed() { synchronized( sync
) { q.changed(); } }
    public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { synchronized( sync ) { return
q.comparator(); } }
    #if !#keyclass(Object)
    public void enqueue( KEY_CLASS x ) { synchronized( sync ) { q.enqueue( x ); } }
    public KEY_CLASS dequeue() { synchronized( sync ) { return q.dequeue(); } }
    public KEY_CLASS first() { synchronized( sync ) { return q.first(); } }
    public KEY_CLASS last() { synchronized( sync ) { return q.last(); } }

    #endif
}

/** Returns a synchronized type-specific priority queue backed by the specified type-specific priority queue.
 *
 * @param q the priority queue to be wrapped in a synchronized priority queue.
 * @return a synchronized view of the specified priority queue.
 */
public static KEY_GENERIC PRIORITY_QUEUE KEY_GENERIC synchronize( final PRIORITY_QUEUE
KEY_GENERIC q ) { return new SynchronizedPriorityQueue( q ); }

```

```
/** Returns a synchronized type-specific priority queue backed by the specified type-specific priority queue,
using an assigned object to synchronize.
```

```
*
```

```
* @param q the priority queue to be wrapped in a synchronized priority queue.
```

```
* @param sync an object that will be used to synchronize the access to the priority queue.
```

```
* @return a synchronized view of the specified priority queue.
```

```
*/
```

```
public static KEY_GENERIC PRIORITY_QUEUE KEY_GENERIC synchronize( final PRIORITY_QUEUE
KEY_GENERIC q, final Object sync ) { return new SynchronizedPriorityQueue( q, sync ); }
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/PriorityQueues.drv
```

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```
/*
```

```
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```

```
*
```

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```

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```
*
```

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* distributed under the License is distributed on an "AS IS" BASIS,
```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
* See the License for the specific language governing permissions and
```

```
* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
#if #keys(reference)
```

```
import it.unimi.dsi.fastutil.Stack;
```

```
#endif
```

```
import java.util.Iterator;
```

```
import java.util.Collection;
```

```
import java.util.NoSuchElementException;
```

```
import it.unimi.dsi.fastutil.BigList;
```

```
import it.unimi.dsi.fastutil.BigListIterator;
```

```

/** An abstract class providing basic methods for
big lists implementing a type-specific big list interface. */

public abstract class ABSTRACT_BIG_LIST KEY_GENERIC extends ABSTRACT_COLLECTION
KEY_GENERIC implements BIG_LIST KEY_GENERIC, STACK KEY_GENERIC {

protected ABSTRACT_BIG_LIST() {}

/** Ensures that the given index is nonnegative and not greater than this big-list size.
*
* @param index an index.
* @throws IndexOutOfBoundsException if the given index is negative or greater than this big-list size.
*/
protected void ensureIndex( final long index ) {
if ( index < 0 ) throw new IndexOutOfBoundsException( "Index (" + index + ") is negative" );
if ( index > size64() ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than list size (" + (
size64() ) + ")" );
}

/** Ensures that the given index is nonnegative and smaller than this big-list size.
*
* @param index an index.
* @throws IndexOutOfBoundsException if the given index is negative or not smaller than this big-list size.
*/
protected
void ensureRestrictedIndex( final long index ) {
if ( index < 0 ) throw new IndexOutOfBoundsException( "Index (" + index + ") is negative" );
if ( index >= size64() ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to
list size (" + ( size64() ) + ")" );
}

public void add( final long index, final KEY_GENERIC_TYPE k ) {
throw new UnsupportedOperationException();
}

public boolean add( final KEY_GENERIC_TYPE k ) {
add( size64(), k );
return true;
}

public KEY_GENERIC_TYPE REMOVE_KEY( long i ) {
throw new UnsupportedOperationException();
}

public KEY_GENERIC_TYPE REMOVE_KEY( int i ) {
return REMOVE_KEY( (long)i );
}

```

```

public KEY_GENERIC_TYPE set( final long index, final KEY_GENERIC_TYPE k ) {
    throw new UnsupportedOperationException();
}

public KEY_GENERIC_TYPE set( final int index, final KEY_GENERIC_TYPE k ) {
    return set( (long)index, k );
}

public boolean addAll( long index, final Collection<? extends KEY_GENERIC_CLASS>
c ) {
    ensureIndex( index );
    int n = c.size();
    if ( n == 0 ) return false;
    Iterator<? extends KEY_GENERIC_CLASS> i = c.iterator();
    while( n-- != 0 ) add( index++, i.next() );
    return true;
}

public boolean addAll( int index, final Collection<? extends KEY_GENERIC_CLASS> c ) {
    return addAll( (long)index, c );
}

/** Delegates to a more generic method. */
public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) {
    return addAll( size64(), c );
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() {
    return listIterator();
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() {
    return listIterator( 0L );
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final long index ) {
    return new KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC() {
        long pos = index, last = -1;

        public boolean hasNext() { return pos < ABSTRACT_BIG_LIST.this.size64(); }
        public boolean hasPrevious() { return pos > 0; }
        public KEY_GENERIC_TYPE
NEXT_KEY() { if ( ! hasNext() ) throw new NoSuchElementException(); return
ABSTRACT_BIG_LIST.this.GET_KEY( last = pos++ ); }
        public KEY_GENERIC_TYPE PREV_KEY() { if ( ! hasPrevious() ) throw new NoSuchElementException(); return
ABSTRACT_BIG_LIST.this.GET_KEY( last = --pos ); }
        public long nextIndex() { return pos; }
    };
}

```

```

public long previousIndex() { return pos - 1; }
public void add( KEY_GENERIC_TYPE k ) {
    if ( last == -1 ) throw new IllegalStateException();
    ABSTRACT_BIG_LIST.this.add( pos++, k );
    last = -1;
}
public void set( KEY_GENERIC_TYPE k ) {
    if ( last == -1 ) throw new IllegalStateException();
    ABSTRACT_BIG_LIST.this.set( last, k );
}
public void remove() {
    if ( last == -1 ) throw new IllegalStateException();
    ABSTRACT_BIG_LIST.this.REMOVE_KEY( last );
    /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
    if ( last < pos
) pos--;
    last = -1;
}
};
}

```

```

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final int index ) {
    return listIterator( (long)index );
}

```

```

public boolean contains( final KEY_TYPE k ) {
    return indexOf( k ) >= 0;
}

```

```

public long indexOf( final KEY_TYPE k ) {
    final KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator();
    KEY_GENERIC_TYPE e;
    while( i.hasNext() ) {
        e = i.NEXT_KEY();
        if ( KEY_EQUALS( k, e ) ) return i.previousIndex();
    }
    return -1;
}

```

```

public long lastIndexOf( final KEY_TYPE k ) {
    KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator( size64() );
    KEY_GENERIC_TYPE e;
    while( i.hasPrevious() ) {
        e = i.PREV_KEY();
        if ( KEY_EQUALS( k, e ) ) return i.nextIndex();
    }
}

```

```

    }
    return -1;
}

public void size( final long size ) {
    long i = size64();
    if ( size > i ) while( i++ < size ) add( KEY_NULL );
    else while( i-- != size ) remove( i );
}

public void size( final int size ) {
    size( (long)size );
}

public BIG_LIST KEY_GENERIC
subList( final long from, final long to ) {
    ensureIndex( from );
    ensureIndex( to );
    if ( from > to ) throw new IndexOutOfBoundsException( "Start index (" + from + ") is greater than end index (" + to
+ ")" );

    return new SUBLIST KEY_GENERIC( this, from, to );
}

/** Removes elements of this type-specific big list one-by-one.
 *
 * <P>This is a trivial iterator-based implementation. It is expected that
 * implementations will override this method with a more optimized version.
 *
 * @param from the start index (inclusive).
 * @param to the end index (exclusive).
 */

public void removeElements( final long from, final long to ) {
    ensureIndex( to );
    KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator( from );
    long n = to - from;
    if ( n < 0 ) throw new IllegalArgumentException( "Start index (" + from + ") is greater than end index (" + to + ")" );
    while( n-- != 0 ) {
        i.NEXT_KEY();
        i.remove();
    }
}

/** Adds elements to this type-specific big list
one-by-one.
 *
 * <P>This is a trivial iterator-based implementation. It is expected that

```

```

* implementations will override this method with a more optimized version.
*
* @param index the index at which to add elements.
* @param a the big array containing the elements.
* @param offset the offset of the first element to add.
* @param length the number of elements to add.
*/

public void addElements( long index, final KEY_GENERIC_TYPE a[], long offset, long length ) {
    ensureIndex( index );
    BIG_ARRAYS.ensureOffsetLength( a, offset, length );
    while( length-- != 0 ) add( index++, BIG_ARRAYS.get( a, offset++ ) );
}

public void addElements( final long index, final KEY_GENERIC_TYPE a[] ) {
    addElements( index, a, 0, BIG_ARRAYS.length( a ) );
}

/** Copies element of this type-specific big list into the given big array one-by-one.
*
* <P>This is a trivial iterator-based implementation. It is expected that
* implementations will override this method with
a more optimized version.
*
* @param from the start index (inclusive).
* @param a the destination big array.
* @param offset the offset into the destination big array where to store the first element copied.
* @param length the number of elements to be copied.
*/

public void getElements( final long from, final KEY_TYPE a[], long offset, long length ) {
    KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator( from );
    BIG_ARRAYS.ensureOffsetLength( a, offset, length );
    if ( from + length > size64() ) throw new IndexOutOfBoundsException( "End index (" + ( from + length ) + ") is
greater than list size (" + size64() + ")" );
    while( length-- != 0 ) BIG_ARRAYS.set( a, offset++, i.NEXT_KEY() );
}

@Deprecated
public int size() {
    return (int)Math.min( Integer.MAX_VALUE, size64() );
}

#if ! #keyclass(Reference)
private boolean valEquals( final Object a, final Object b ) {
    return a == null ? b == null : a.equals( b );
}
#endif

```

```

public boolean equals( final Object
o ) {
    if ( o == this ) return true;
    if ( ! ( o instanceof BigList ) ) return false;
    final BigList<?> l = (BigList<?>)o;
    long s = size64();
    if ( s != l.size64() ) return false;

    #if #keys(primitive)
    if ( l instanceof BIG_LIST ) {
        final KEY_BIG_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((BIG_LIST
KEY_GENERIC)l).listIterator();
        while( s-- != 0 ) if ( i1.NEXT_KEY() != i2.NEXT_KEY() ) return false;
        return true;
    }
    #endif

    final BigListIterator<?> i1 = listIterator(), i2 = l.listIterator();

    #if #keyclass(Reference)
    while( s-- != 0 ) if ( i1.next() != i2.next() ) return false;
    #else
    while( s-- != 0 ) if ( ! valEquals( i1.next(), i2.next() ) ) return false;
    #endif
    return true;
}

#if ! #keyclass(Reference)
/** Compares this big list to another object. If the
 * argument is a {@link BigList}, this method performs a lexicographical comparison; otherwise,
 * it throws a <code>ClassCastException</code>.
 *
 * @param l a big list.
 *
 * @return if the argument is a {@link BigList}, a negative integer,
 * zero, or a positive integer as this list is lexicographically less than, equal
 * to, or greater than the argument.
 * @throws ClassCastException if the argument is not a big list.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public int compareTo( final BigList<? extends KEY_GENERIC_CLASS> l ) {
    if ( l == this ) return 0;

    if ( l instanceof BIG_LIST ) {

        final KEY_BIG_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((BIG_LIST

```

```

KEY_GENERIC)l).listIterator();
    int r;
    KEY_GENERIC_TYPE e1, e2;

    while( i1.hasNext() && i2.hasNext() ) {
        e1 = i1.NEXT_KEY();
        e2 = i2.NEXT_KEY();
        if ( ( r = KEY_CMP( e1, e2 ) ) != 0 ) return r;
    }
    return i2.hasNext() ? -1 : ( i1.hasNext() ? 1 : 0 );
}

BigListIterator<? extends KEY_GENERIC_CLASS> i1 = listIterator(), i2 = l.listIterator();
int r;

while( i1.hasNext() && i2.hasNext() ) {
    if ( ( r = ((Comparable<? super KEY_GENERIC_CLASS>)i1.next()).compareTo(
i2.next() ) ) != 0 ) return r;
}
return i2.hasNext() ? -1 : ( i1.hasNext() ? 1 : 0 );
}
#endif

/** Returns the hash code for this big list, which is identical to { @link java.util.List#hashCode()}.
 *
 * @return the hash code for this big list.
 */
public int hashCode() {
    KEY_ITERATOR KEY_GENERIC i = iterator();
    int h = 1;
    long s = size64();
    while ( s-- != 0 ) {
        KEY_GENERIC_TYPE k = i.NEXT_KEY();
        h = 31 * h + KEY2JAVAHASH( k );
    }
    return h;
}

public void push( KEY_GENERIC_TYPE o ) {
    add( o );
}

public KEY_GENERIC_TYPE POP() {
    if ( isEmpty() ) throw new NoSuchElementException();
    return REMOVE_KEY( size64() - 1 );
}

public KEY_GENERIC_TYPE TOP() {

```

```

if ( isEmpty() ) throw new NoSuchElementException();
return GET_KEY( size64() - 1 );
}

public KEY_GENERIC_TYPE PEEK( int i ) {
return GET_KEY( size64() - 1 - i );
}

#if #keys(primitive)

public KEY_TYPE GET_KEY( final int index ) {
return GET_KEY( (long)index
);
}

public boolean rem( KEY_TYPE k ) {
long index = indexOf( k );
if ( index == -1 ) return false;
REMOVE_KEY( index );
return true;
}

/** Delegates to a more generic method. */
public boolean addAll( final long index, final COLLECTION c ) {
return addAll( index, (Collection<? extends KEY_CLASS>)c );
}

/** Delegates to a more generic method. */
public boolean addAll( final long index, final BIG_LIST l ) {
return addAll( index, (COLLECTION)l );
}

public boolean addAll( final COLLECTION c ) {
return addAll( size64(), c );
}

public boolean addAll( final BIG_LIST l ) {
return addAll( size64(), l );
}

/** {@inheritDoc}
*
* Delegates to a more generic method.
*
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public void add( final long index, final KEY_CLASS ok ) {
add( index, ok.KEY_VALUE() );
}

```

```

}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific
method instead. */
@Deprecated
public KEY_CLASS set( final long index, final KEY_CLASS ok ) {
    return KEY2OBJ( set( index, ok.KEY_VALUE() ) );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS get( final long index ) {
    return KEY2OBJ( GET_KEY( index ) );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public long indexOf( final Object ok ) {
    return indexOf( KEY_OBJ2TYPE( ok ) );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public long lastIndexOf( final Object ok ) {
    return lastIndexOf( KEY_OBJ2TYPE( ok ) );
}

/**
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific
method instead. */
@Deprecated
public KEY_CLASS remove( final int index ) {
    return KEY2OBJ( REMOVE_KEY( index ) );
}

```

```

}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS remove( final long index ) {
    return KEY2OBJ( REMOVE_KEY( index ) );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public void push( KEY_CLASS o ) {
    push( o.KEY_VALUE() );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS pop() {
    return KEY_CLASS.valueOf( POP() );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS
top() {
    return KEY_CLASS.valueOf( TOP() );
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */

```

```

@Deprecated
public KEY_CLASS peek( int i ) {
    return KEY_CLASS.valueOf( PEEK( i ) );
}

#else

public KEY_GENERIC_CLASS get( int index ) {
    return get( (long)index );
}

#endif

public String toString() {
    final StringBuilder s = new StringBuilder();
    final KEY_ITERATOR KEY_GENERIC i = iterator();
    long n = size64();
    KEY_GENERIC_TYPE k;
    boolean first = true;

    s.append("[");

    while( n-- != 0 ) {
        if (first) first = false;
        else s.append(", ");
        k = i.NEXT_KEY();
        #if #keys(reference)
            if (this == k) s.append("(this big list)"); else
        #endif
            s.append( String.valueOf( k ) );
    }

    s.append("]");
    return s.toString();
}

public static class SUBLIST KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC implements
java.io.Serializable {
    private static final
long serialVersionUID = -7046029254386353129L;
    /** The list this sublist restricts. */
    protected final BIG_LIST KEY_GENERIC l;
    /** Initial (inclusive) index of this sublist. */
    protected final long from;
    /** Final (exclusive) index of this sublist. */
    protected long to;

```

```

private static final boolean ASSERTS = ASSERTS_VALUE;

public SUBLIST( final BIG_LIST KEY_GENERIC l, final long from, final long to ) {
    this.l = l;
    this.from = from;
    this.to = to;
}

private void assertRange() {
    if ( ASSERTS ) {
        assert from <= l.size64();
        assert to <= l.size64();
        assert to >= from;
    }
}

public boolean add( final KEY_GENERIC_TYPE k ) {
    l.add( to, k );
    to++;
    if ( ASSERTS ) assertRange();
    return true;
}

public void add( final long index, final KEY_GENERIC_TYPE k ) {
    ensureIndex( index );
    l.add( from + index, k );
    to++;
    if ( ASSERTS ) assertRange();
}

public boolean addAll( final long index, final Collection<? extends
KEY_GENERIC_CLASS> c ) {
    ensureIndex( index );
    to += c.size();
    if ( ASSERTS ) {
        boolean retVal = l.addAll( from + index, c );
        assertRange();
        return retVal;
    }
    return l.addAll( from + index, c );
}

public KEY_GENERIC_TYPE GET_KEY( long index ) {
    ensureRestrictedIndex( index );
    return l.GET_KEY( from + index );
}

```

```

public KEY_GENERIC_TYPE REMOVE_KEY( long index ) {
    ensureRestrictedIndex( index );
    to--;
    return l.REMOVE_KEY( from + index );
}

public KEY_GENERIC_TYPE set( long index, KEY_GENERIC_TYPE k ) {
    ensureRestrictedIndex( index );
    return l.set( from + index, k );
}

public void clear() {
    removeElements( 0, size64() );
    if ( ASSERTS ) assertRange();
}

public long size64() {
    return to - from;
}

public void getElements( final long from, final KEY_TYPE[][] a, final long offset, final long length ) {
    ensureIndex( from );
    if ( from + length > size64() ) throw new IndexOutOfBoundsException( "End index
(" + from + length + ") is greater than list size (" + size64() + ")" );
    l.getElements( this.from + from, a, offset, length );
}

public void removeElements( final long from, final long to ) {
    ensureIndex( from );
    ensureIndex( to );
    l.removeElements( this.from + from, this.from + to );
    this.to -= ( to - from );
    if ( ASSERTS ) assertRange();
}

public void addElements( final long index, final KEY_GENERIC_TYPE a[], long offset, long length ) {
    ensureIndex( index );
    l.addElements( this.from + index, a, offset, length );
    this.to += length;
    if ( ASSERTS ) assertRange();
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator( final long index ) {
    ensureIndex( index );

    return new KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC() {
        long pos = index, last = -1;
    };
}

```

```

    public boolean hasNext() { return pos < size64(); }
    public boolean hasPrevious() { return pos > 0; }
    public KEY_GENERIC_TYPE NEXT_KEY() { if ( ! hasNext() )
throw new NoSuchElementException(); return l.GET_KEY( from + ( last = pos++ ) ); }
    public KEY_GENERIC_TYPE PREV_KEY() { if ( ! hasPrevious() ) throw new NoSuchElementException(); return
l.GET_KEY( from + ( last = --pos ) ); }
    public long nextIndex() { return pos; }
    public long previousIndex() { return pos - 1; }
    public void add( KEY_GENERIC_TYPE k ) {
    if ( last == -1 ) throw new IllegalStateException();
    SUBLIST.this.add( pos++, k );
    last = -1;
    if ( ASSERTS ) assertRange();
    }
    public void set( KEY_GENERIC_TYPE k ) {
    if ( last == -1 ) throw new IllegalStateException();
    SUBLIST.this.set( last, k );
    }
    public void remove() {
    if ( last == -1 ) throw new IllegalStateException();
    SUBLIST.this.REMOVE_KEY( last );
    /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
    if ( last < pos ) pos--;
    last = -1;
    if ( ASSERTS
) assertRange();
    }
};
}

public BIG_LIST KEY_GENERIC subList( final long from, final long to ) {
    ensureIndex( from );
    ensureIndex( to );
    if ( from > to ) throw new IllegalArgumentException( "Start index (" + from + ") is greater than end index (" + to +
)" );

    return new SUBLIST KEY_GENERIC( this, from, to );
}

#if #keys(primitive)

public boolean rem( KEY_TYPE k ) {
    long index = indexOf( k );
    if ( index == -1 ) return false;
    to--;
    l.REMOVE_KEY( from + index );
    if ( ASSERTS ) assertRange();
}

```

```

return true;
}

public boolean remove( final Object o ) {
return rem( KEY_OBJ2TYPE( o ) );
}

public boolean addAll( final long index, final COLLECTION c ) {
ensureIndex( index );
to += c.size();
if ( ASSERTS ) {
boolean retVal = l.addAll( from + index, c );
assertRange();
return retVal;
}
return l.addAll( from + index, c );
}

public boolean addAll( final long index, final LIST l ) {
ensureIndex( index
);
to += l.size();
if ( ASSERTS ) {
boolean retVal = this.l.addAll( from + index, l );
assertRange();
return retVal;
}
return this.l.addAll( from + index, l );
}

#else
public boolean remove( final Object o ) {
long index = indexOf( o );
if ( index == -1 ) return false;
REMOVE_KEY( index );
return true;
}
#endif

}

}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractBigList.drv
No license file was found, but licenses were detected in source scan.

/*

```

```

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* limitations under the License.
*/

```

```
package PACKAGE;
```

```
import java.util.List;
import java.util.Collection;
import java.util.Random;
```

```
/** A class providing static methods and objects that do useful things with type-specific lists.
 *
 * @see java.util.Collections
 */
```

```
public class LISTS {
```

```
    private LISTS() {}
```

```
    /** Shuffles the specified list using the
     * specified pseudorandom number generator.
     */
```

```
    * @param l the list to be shuffled.
```

```
    * @param random a pseudorandom number generator (please use a <a
href="http://dsiutils.dsi.unimi.it/docs/it/unimi/dsi/util/XorShiftStarRandom.html">XorShift*</a> generator).
```

```
    * @return <code>l</code>.
```

```
    */
```

```
    public static KEY_GENERIC LIST KEY_GENERIC shuffle( final LIST KEY_GENERIC l, final Random random
) {
```

```
        for( int i = l.size(); i-- != 0; ) {
```

```
            final int p = random.nextInt( i + 1 );
```

```
            final KEY_GENERIC_TYPE t = l.GET_KEY( i );
```

```
            l.set( i, l.GET_KEY( p ) );
```

```
            l.set( p, t );
```

```
        }
```

```
        return l;
```

```

}

/** An immutable class representing an empty type-specific list.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific list.
 */

public static class EmptyList KEY_GENERIC extends COLLECTIONS.EmptyCollection KEY_GENERIC
implements LIST KEY_GENERIC, java.io.Serializable, Cloneable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected
    EmptyList() {}

    public void add( final int index, final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }

    public boolean add( final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
    public KEY_GENERIC_TYPE REMOVE_KEY( int i ) { throw new UnsupportedOperationException(); }
    public KEY_GENERIC_TYPE set( final int index, final KEY_GENERIC_TYPE k ) { throw new
UnsupportedOperationException(); }

    public int indexOf( KEY_TYPE k ) { return -1; }
    public int lastIndexOf( KEY_TYPE k ) { return -1; }

    public boolean addAll( Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
    public boolean addAll( int i, Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
    public boolean removeAll( Collection<?> c ) { throw new UnsupportedOperationException(); }

    public KEY_GENERIC_CLASS get( int i ) { throw new IndexOutOfBoundsException(); }

    #if #keys(primitive)
    public
    boolean addAll( COLLECTION c ) { throw new UnsupportedOperationException(); }
    public boolean addAll( LIST c ) { throw new UnsupportedOperationException(); }
    public boolean addAll( int i, COLLECTION c ) { throw new UnsupportedOperationException(); }
    public boolean addAll( int i, LIST c ) { throw new UnsupportedOperationException(); }

    public void add( final int index, final KEY_GENERIC_CLASS k ) { throw new UnsupportedOperationException();
}
    public boolean add( final KEY_GENERIC_CLASS k ) { throw new UnsupportedOperationException(); }
    public KEY_GENERIC_CLASS set( final int index, final KEY_GENERIC_CLASS k ) { throw new
UnsupportedOperationException(); }
    public KEY_GENERIC_TYPE GET_KEY( int i ) { throw new IndexOutOfBoundsException(); }

```

```

public KEY_GENERIC_CLASS remove( int k ) { throw new UnsupportedOperationException(); }

public int indexOf( Object k ) { return -1; }
public int lastIndexOf( Object k ) { return -1; }
#endif

//SUPPRESS_WARNINGS_KEY_UNCHECKED
//public
KEY_ITERATOR KEY_GENERIC iterator( int i ) { if ( i == 0 ) return ITERATORS.EMPTY_ITERATOR; throw
new IndexOutOfBoundsException( String.valueOf( i ) ); }

@Deprecated
SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return
ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_LIST_ITERATOR KEY_GENERIC listIterator( int i ) { if ( i == 0 ) return
ITERATORS.EMPTY_ITERATOR; throw new IndexOutOfBoundsException( String.valueOf( i ) ); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() { return listIterator(); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD( int i ) { return listIterator( i
); }

public LIST
KEY_GENERIC subList( int from, int to ) { if ( from == 0 && to == 0 ) return this; throw new
IndexOutOfBoundsException(); }

@Deprecated
public LIST KEY_GENERIC SUBLIST_METHOD( int from, int to ) { return subList( from, to ); }

public void getElements( int from, KEY_TYPE[] a, int offset, int length ) { if ( from == 0 && length == 0 &&
offset >= 0 && offset <= a.length ) return; throw new IndexOutOfBoundsException(); }
public void removeElements( int from, int to ) { throw new UnsupportedOperationException(); }

public void addElements( int index, final KEY_GENERIC_TYPE a[], int offset, int length ) { throw new
UnsupportedOperationException(); }
public void addElements( int index, final KEY_GENERIC_TYPE a[] ) { throw new
UnsupportedOperationException(); }

```

```

public void size( int s ) { throw new UnsupportedOperationException(); }

public int compareTo( final List<? extends KEY_GENERIC_CLASS> o ) {
    if ( o == this ) return 0;
    return ((List<?>)o).isEmpty() ? 0 : -1;
}

private
Object readResolve() { return EMPTY_LIST; }
public Object clone() { return EMPTY_LIST; }
}

/** An empty list (immutable). It is serializable and cloneable.
 *
 * <P>The class of this objects represent an abstract empty list
 * that is a sublist of any type of list. Thus, { @link #EMPTY_LIST }
 * may be assigned to a variable of any (sorted) type-specific list.
 */

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptyList EMPTY_LIST = new EmptyList();

/** An immutable class representing a type-specific singleton list.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific list.
 */

public static class Singleton KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
java.io.Serializable, Cloneable {

    private static final long serialVersionUID = -7046029254386353129L;

    private final KEY_GENERIC_TYPE element;

    private Singleton( final KEY_GENERIC_TYPE element ) {
        this.element = element;
    }

    public
    KEY_GENERIC_TYPE GET_KEY( final int i ) { if ( i == 0 ) return element; throw new
IndexOutOfBoundsException(); }
    public KEY_GENERIC_TYPE REMOVE_KEY( final int i ) { throw new UnsupportedOperationException(); }
    public boolean contains( final KEY_TYPE k ) { return KEY_EQUALS( k, element ); }
}

```

```

public boolean addAll( final Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
public boolean addAll( final int i, final Collection <? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }
public boolean removeAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }
public boolean retainAll( final Collection<?> c ) { throw new UnsupportedOperationException(); }

/* Slightly optimized w.r.t. the one in ABSTRACT_SET. */

public KEY_TYPE[] TO_KEY_ARRAY() {
KEY_TYPE a[] = new KEY_TYPE[ 1 ];
a[ 0 ] = element;
return a;
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return
ITERATORS.singleton( element ); }

public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }

public KEY_LIST_ITERATOR KEY_GENERIC listIterator( int i ) {
if ( i > 1 || i < 0 ) throw new IndexOutOfBoundsException();
KEY_LIST_ITERATOR KEY_GENERIC l = listIterator();
if ( i == 1 ) l.next();
return l;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public LIST KEY_GENERIC subList( final int from, final int to ) {
ensureIndex( from );
ensureIndex( to );
if ( from > to ) throw new IndexOutOfBoundsException( "Start index (" + from + ") is greater than end index (" + to
+ ")" );

if ( from != 0 || to != 1 ) return EMPTY_LIST;
return this;
}

public int size() { return 1; }
public void size( final int size ) { throw new UnsupportedOperationException(); }
public void clear() { throw new UnsupportedOperationException(); }

public Object clone() { return this; }

#if #keys(primitive)
public boolean rem( final KEY_GENERIC_TYPE k ) { throw
new UnsupportedOperationException(); }
public boolean addAll( final COLLECTION c ) { throw new UnsupportedOperationException(); }

```

```

    public boolean addAll( final int i, final COLLECTION c ) { throw new UnsupportedOperationException(); }
#else
    public boolean remove( final Object k ) { throw new UnsupportedOperationException(); }
#endif

}

/** Returns a type-specific immutable list containing only the specified element. The returned list is serializable and
cloneable.
*
* @param element the only element of the returned list.
* @return a type-specific immutable list containing just <code>element</code>.
*/

public static KEY_GENERIC LIST KEY_GENERIC singleton( final KEY_GENERIC_TYPE element ) { return
new Singleton KEY_GENERIC( element ); }

#if ! #keys(reference)

/** Returns a type-specific immutable list containing only the specified element. The returned list is serializable and
cloneable.
*
* @param element the only element of the returned list.
* @return a type-specific
immutable list containing just <code>element</code>.
*/

public static KEY_GENERIC LIST KEY_GENERIC singleton( final Object element ) { return new Singleton
KEY_GENERIC( KEY_OBJ2TYPE( element ) ); }

#endif

/** A synchronized wrapper class for lists. */

public static class SynchronizedList KEY_GENERIC extends COLLECTIONS.SynchronizedCollection
KEY_GENERIC implements LIST KEY_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final LIST KEY_GENERIC list; // Due to the large number of methods that are not in COLLECTION,
this is worth caching.

    protected SynchronizedList( final LIST KEY_GENERIC l, final Object sync ) {
        super( l, sync );
        this.list = l;
    }
}

```

```

protected SynchronizedList( final LIST_KEY_GENERIC l ) {
    super( l );
    this.list = l;
}

public KEY_GENERIC_TYPE GET_KEY( final int i ) { synchronized( sync ) { return list.GET_KEY( i ); } }
public KEY_GENERIC_TYPE set( final int i,
final KEY_GENERIC_TYPE k ) { synchronized( sync ) { return list.set( i, k ); } }
public void add( final int i, final KEY_GENERIC_TYPE k ) { synchronized( sync ) { list.add( i, k ); } }
public KEY_GENERIC_TYPE REMOVE_KEY( final int i ) { synchronized( sync ) { return list.REMOVE_KEY( i ); } }

public int indexOf( final KEY_TYPE k ) { synchronized( sync ) { return list.indexOf( k ); } }
public int lastIndexOf( final KEY_TYPE k ) { synchronized( sync ) { return list.lastIndexOf( k ); } }

public boolean addAll( final int index, final Collection<? extends KEY_GENERIC_CLASS> c ) { synchronized(
sync ) { return list.addAll( index, c ); } }

public void getElements( final int from, final KEY_TYPE a[], final int offset, final int length ) { synchronized( sync
) { list.getElements( from, a, offset, length ); } }
public void removeElements( final int from, final int to ) { synchronized( sync ) { list.removeElements( from, to ); }
}
public void addElements( int index, final KEY_GENERIC_TYPE
a[], int offset, int length ) { synchronized( sync ) { list.addElements( index, a, offset, length ); } }
public void addElements( int index, final KEY_GENERIC_TYPE a[] ) { synchronized( sync ) { list.addElements(
index, a ); } }
public void size( final int size ) { synchronized( sync ) { list.size( size ); } }

public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return list.iterator(); }
public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return list.listIterator(); }
public KEY_LIST_ITERATOR KEY_GENERIC listIterator( final int i ) { return list.listIterator( i ); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() { return listIterator(); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD( final int i ) { return
listIterator( i ); }

public LIST_KEY_GENERIC subList( final int from, final int to ) { synchronized( sync ) { return synchronize(
list.subList( from, to ), sync ); } }

@Deprecated
public
LIST_KEY_GENERIC SUBLIST_METHOD( final int from, final int to ) { return subList( from, to ); }

public boolean equals( final Object o ) { synchronized( sync ) { return collection.equals( o ); } }
public int hashCode() { synchronized( sync ) { return collection.hashCode(); } }

```

```

#if ! #keyclass(Reference)
    public int compareTo( final List<? extends KEY_GENERIC_CLASS> o ) { synchronized( sync ) { return
list.compareTo( o ); } }
#endif

#if #keys(primitive)
    public boolean addAll( final int index, final COLLECTION c ) { synchronized( sync ) { return list.addAll( index, c
); } }
    public boolean addAll( final int index, LIST l ) { synchronized( sync ) { return list.addAll( index, l ); } }
    public boolean addAll( LIST l ) { synchronized( sync ) { return list.addAll( l ); } }

    public KEY_GENERIC_CLASS get( final int i ) { synchronized( sync ) { return list.get( i ); } }
    public void add( final int i, KEY_GENERIC_CLASS k ) { synchronized( sync ) { list.add( i, k ); } }
    public
KEY_GENERIC_CLASS set( final int index, KEY_GENERIC_CLASS k ) { synchronized( sync ) { return list.set(
index, k ); } }
    public KEY_GENERIC_CLASS remove( final int i ) { synchronized( sync ) { return list.remove( i ); } }
    public int indexOf( final Object o ) { synchronized( sync ) { return list.indexOf( o ); } }
    public int lastIndexOf( final Object o ) { synchronized( sync ) { return list.lastIndexOf( o ); } }
#endif
}

/** Returns a synchronized type-specific list backed by the given type-specific list.
*
* @param l the list to be wrapped in a synchronized list.
* @return a synchronized view of the specified list.
* @see java.util.Collections#synchronizedList(List)
*/
public static KEY_GENERIC LIST KEY_GENERIC synchronize( final LIST KEY_GENERIC l ) { return new
SynchronizedList KEY_GENERIC( l ); }

/** Returns a synchronized type-specific list backed by the given type-specific list, using an assigned object to
synchronize.
*
* @param l the list to be wrapped
in a synchronized list.
* @param sync an object that will be used to synchronize the access to the list.
* @return a synchronized view of the specified list.
* @see java.util.Collections#synchronizedList(List)
*/
public static KEY_GENERIC LIST KEY_GENERIC synchronize( final LIST KEY_GENERIC l, final Object sync
) { return new SynchronizedList KEY_GENERIC( l, sync ); }

```

```

/** An unmodifiable wrapper class for lists. */

public static class UnmodifiableList KEY_GENERIC extends COLLECTIONS.UnmodifiableCollection
KEY_GENERIC implements LIST KEY_GENERIC, java.io.Serializable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected final LIST KEY_GENERIC list; // Due to the large number of methods that are not in COLLECTION,
this is worth caching.

    protected UnmodifiableList( final LIST KEY_GENERIC l ) {
        super( l );
        this.list = l;
    }

    public KEY_GENERIC_TYPE GET_KEY( final int i ) { return list.GET_KEY( i ); }
    public KEY_GENERIC_TYPE set(
final int i, final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
    public void add( final int i, final KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
    public KEY_GENERIC_TYPE REMOVE_KEY( final int i ) { throw new UnsupportedOperationException(); }

    public int indexOf( final KEY_TYPE k ) { return list.indexOf( k ); }
    public int lastIndexOf( final KEY_TYPE k ) { return list.lastIndexOf( k ); }

    public boolean addAll( final int index, final Collection<? extends KEY_GENERIC_CLASS> c ) { throw new
UnsupportedOperationException(); }

    public void getElements( final int from, final KEY_TYPE a[], final int offset, final int length ) { list.getElements(
from, a, offset, length ); }
    public void removeElements( final int from, final int to ) { throw new UnsupportedOperationException(); }
    public void addElements( int index, final KEY_GENERIC_TYPE a[], int offset, int length ) { throw new
UnsupportedOperationException(); }
    public void addElements(
int index, final KEY_GENERIC_TYPE a[] ) { throw new UnsupportedOperationException(); }
    public void size( final int size ) { list.size( size ); }

    public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }
    public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return ITERATORS.unmodifiable( list.listIterator()
); }
    public KEY_LIST_ITERATOR KEY_GENERIC listIterator( final int i ) { return ITERATORS.unmodifiable(
list.listIterator( i ); }

    @Deprecated
    public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() { return listIterator(); }

    @Deprecated
    public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD( final int i ) { return
listIterator( i ); }

```

```

public LIST KEY_GENERIC subList( final int from, final int to ) { return unmodifiable( list.subList( from, to ) ); }

@Deprecated
public LIST KEY_GENERIC SUBLIST_METHOD( final int from, final int to ) { return subList( from, to ); }

public boolean equals( final Object o ) { return collection.equals(
o ); }
public int hashCode() { return collection.hashCode(); }

#if ! #keyclass(Reference)
public int compareTo( final List<? extends KEY_GENERIC_CLASS> o ) { return list.compareTo( o ); }
#endif

#if #keys(primitive)
public boolean addAll( final int index, final COLLECTION c ) { throw new UnsupportedOperationException(); }
public boolean addAll( final LIST l ) { throw new UnsupportedOperationException(); }
public boolean addAll( final int index, final LIST l ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS get( final int i ) { return list.get( i ); }
public void add( final int i, KEY_GENERIC_CLASS k ) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS set( final int index, KEY_GENERIC_CLASS k ) { throw new
UnsupportedOperationException(); }
public KEY_GENERIC_CLASS remove( final int i ) { throw new UnsupportedOperationException(); }
public int indexOf( final Object o ) { return list.indexOf( o ); }
public
int lastIndexOf( final Object o ) { return list.lastIndexOf( o ); }
#endif
}

/** Returns an unmodifiable type-specific list backed by the given type-specific list.
*
* @param l the list to be wrapped in an unmodifiable list.
* @return an unmodifiable view of the specified list.
* @see java.util.Collections#unmodifiableList(List)
*/
public static KEY_GENERIC LIST KEY_GENERIC unmodifiable( final LIST KEY_GENERIC l ) { return new
UnmodifiableList KEY_GENERIC(l); }

#ifdef TEST

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)

```

```

    return r.NEXT_KEY();
#elif #keyclass(Object)
    return Integer.toBinaryString( r.nextInt() );
#else
    return new java.io.Serializable() {};
#endif
}

private static void testLists( KEY_TYPE k, LIST m, List t, int level ) {
    int n = 100;
    int c;

    long ms;
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement,
    mThrowsIndex, tThrowsIndex, mThrowsUnsupp, tThrowsUnsupp;
    boolean rt = false, rm = false;
    Object Rt = null, Rm = null;

    if ( level == 0 ) return;

    /* Now we check that m and t are equal. */
    if ( !m.equals( t ) || !t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

    ensure( m.equals( t ), "Error ( " + level + ", " + seed + "): ! m.equals( t ) at start" );
    ensure( t.equals( m ), "Error ( " + level + ", " + seed + "): ! t.equals( m ) at start" );

    /* Now we check that m actually holds that data. */
    for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
        ensure( m.contains( i.next() ), "Error ( " + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
    }

    /* Now we check that m actually holds that data, but iterating on m. */
    for(java.util.Iterator i=m.listIterator(); i.hasNext(); ) {
        ensure( t.contains( i.next() ), "Error ( " + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)"
    );
    }

    /* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

    for(int i=0; i<n; i++) {
        KEY_TYPE T = genKey();

        mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

```

```

try {
    m.contains(T);
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }

try {
    t.contains(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " ("
+ mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure( m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic
method) " + m );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp
= tThrowsUnsupp = false;

    try {
        m.contains(KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        t.contains(KEY2OBJ(T));
    }

```

```

catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence
in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): contains() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t
and m (standard method) " + m );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
KEY_TYPE T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
rm = m.add(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
rt = t.add(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence
in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );

```

```

ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in add() between t and m " + m );

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
    rm = m.remove(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException
e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    rt = t.remove(KEY2OBJ(T));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

if ( ! KEY_EQUALS( T, k ) && mThrowsUnsupp && ! tThrowsUnsupp ) mThrowsUnsupp = true; // Stupid bug in
Collections.singleton()

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" +
mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in remove() between t and m " + m );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal " + m );

/* Now we add and remove random data in m and t at specific positions, checking that the result is the same. */

```

```

for(int i=0; i<20*n; i++) {
    KEY_TYPE
    T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
    mThrowsUnsupp = tThrowsUnsupp = false;

    int pos = r.nextInt( 2 );

    try {
        m.add(pos, KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        t.add(pos, KEY2OBJ(T));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() at " + pos + "
    divergence in java.util.NoSuchElementException for
    " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
    IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
    IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
    UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );

    T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
    mThrowsUnsupp = tThrowsUnsupp = false;

    pos = r.nextInt( 2 );

    try {
        Rm = m.remove(pos);
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement
= true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

```

```

catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

try {
    Rt = t.remove(pos);
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure(
        mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( Rm == Rt ||
Rm != null && Rm.equals(Rt), "Error (" + level + ", " + seed + "): divergence in remove() at " + pos + " between t
and m " + m );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal " + m );

/* Now we add and remove random collections in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE
    T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    try {
        rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {

```

```

rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() between t and m " + m );

```

```
T = genKey();
```

```
mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal
= tThrowsIllegal = mThrowsUnsupp = tThrowsUnsupp = false;
```

```

try {
rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

```

```

try {
rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
catch ( IndexOutOfBoundsException e ) { tThrowsIndex = true; }
catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

```

```

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): removeAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")
" + m );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): removeAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): removeAll() divergence in

```

```

UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt,
"Error (" + level + ", " + seed + "): divergence in removeAll() between t and m " + m );
}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after set removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after
set removal " + m );

/* Now we add random collections at specific positions in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();

    mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

    int pos = r.nextInt( 2 );

    try {
        rm = m.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
    }
    catch ( java.util.NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException e ) { mThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { mThrowsUnsupp = true; }

    try {
        rt = t.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
    }
    catch ( java.util.NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }
    catch ( IndexOutOfBoundsException
e ) { tThrowsIndex = true; }
    catch ( UnsupportedOperationException e ) { tThrowsUnsupp = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m );
    ensure( mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m );
    ensure( mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m );
    if ( !mThrowsNoElement
&& !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp ) ensure( rm == rt, "Error (" + level + ", " + seed
+ "): divergence in addAll() at " + pos + " between t and m " + m );

```

```

}

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after set removal " + m );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after set removal " + m );

/* Now we check that m actually holds the same data. */

for(java.util.Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.listIterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

if ( m instanceof Singleton ) {
    ensure( m.equals( ((Singleton)m).clone()
), "Error (" + level + ", " + seed + "): m does not equal m.clone()" );
    ensure( ((Singleton)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m" );
}

int h = m.hashCode();

/* Now we save and read m. */

LIST m2 = null;

try {
    java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
    java.io.OutputStream os = new java.io.FileOutputStream(ff);
    java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

    oos.writeObject(m);
    oos.close();

    java.io.InputStream is = new java.io.FileInputStream(ff);
    java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

    m2 = (LIST)ois.readObject();
    ois.close();
    ff.delete();
}
catch(Exception e) {

```

```

    e.printStackTrace();
    System.exit( 1 );
}

#if ! #keyclass(Reference)

ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2
actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
#endif

if ( ! m.isEmpty() ) {
    int start = r.nextInt( m.size() );
    int end = start + r.nextInt( m.size() - start );
    //System.err.println("Checking subList from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testLists( k, m.subList( start, end ), t.subList( start, end ), level - 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after subList" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subList" );

}

return;
}

private static void test() {
    KEY_TYPE k = genKey();
    LIST m = new Singleton( k );
    List u = java.util.Collections.singletonList( KEY2OBJ( k ) );
    testLists( k, m, java.util.Collections.unmodifiableList( u ), 3 );
    System.out.println("Test
OK");
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition fp = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, fp ).toString();
}

```

```

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

/** This method expects as first argument a lower-cased type (e.g., "int"),
 * and as second optional argument a seed. */

public static void main( String arg[] ) throws Exception {
    if ( arg.length > 1 ) r = new java.util.Random( seed = Long.parseLong( arg[ 1 ] ) );

    try {
        test();
    } catch( Throwable e ) {
        e.printStackTrace( System.err
    );
        System.err.println( "seed: " + seed );
    }
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Lists.drv

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Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteHeapIndirectPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIndirectPriorityQueue.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrayPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectSemiIndirectHeaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteIndirectPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntHeapSemiIndirectPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortHeaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongHeapPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatArrayIndirectPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharIndirectHeaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntHeaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharHeaps.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharComparators.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrayIndirectPriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortHeapPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/PriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/AbstractIndirectDoublePriorityQueue.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectArrayPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrayPriorityQueue.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteIndirectHeaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatHeapSemiIndirectPriorityQueue.java
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectHeapPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatPriorityQueue.java
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrayIndirectPriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteComparators.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongIndirectPriorityQueue.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongArrayIndirectPriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatHeapIndirectPriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/IndirectPriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatIndirectPriorityQueue.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortComparators.java

*

/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleIndirectHeaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/IndirectDoublePriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleSemiIndirectHeaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatComparators.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/AbstractPriorityQueue.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteSemiIndirectHeaps.java

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/AbstractIndirectPriorityQueue.java
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```
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
```

```
package PACKAGE;

import it.unimi.dsi.fastutil.objects.AbstractObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;

import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
import
    VALUE_PACKAGE.VALUE_ITERATOR;

import java.util.Comparator;
import java.util.Iterator;
import java.util.Map;
import java.util.SortedMap;
import java.util.NoSuchElementException;

#if #values(primitive)
import VALUE_PACKAGE.VALUE_LIST_ITERATOR;
#endif
```

```

/** A type-specific red-black tree map with a fast, small-footprint implementation.
 *
 * <P>The iterators provided by the views of this class are type-specific { @linkplain
 * it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
 * Moreover, the iterator returned by <code>iterator()</code> can be safely cast
 * to a type-specific { @linkplain java.util.ListIterator list iterator}.
 *
 */

public class RB_TREE_MAP KEY_VALUE_GENERIC extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

    /** A reference to the root entry. */
    protected transient Entry KEY_VALUE_GENERIC tree;

    /** Number of entries in this map. */
    protected int count;

    /** The first
    key in this map. */
    protected transient Entry KEY_VALUE_GENERIC firstEntry;

    /** The last key in this map. */
    protected transient Entry KEY_VALUE_GENERIC lastEntry;

    /** Cached set of entries. */
    protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;

    /** Cached set of keys. */
    protected transient volatile SORTED_SET KEY_GENERIC keys;

    /** Cached collection of values. */
    protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

    /** The value of this variable remembers, after a <code>put()</code>
    * or a <code>remove()</code>, whether the <em>domain</em> of the map
    * has been modified. */
    protected transient boolean modified;

    /** This map's comparator, as provided in the constructor. */
    protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;

    /** This map's actual comparator; it may differ from { @link #storedComparator} because it is
    always a type-specific comparator, so it could be derived from the former by wrapping.
    */
    protected transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;

```

```

private static final long serialVersionUID = -7046029254386353129L;

private static final boolean ASSERTS = ASSERTS_VALUE;

{
    allocatePaths();
}

/** Creates a new empty tree map.
 */

public RB_TREE_MAP() {
    tree = null;
    count = 0;
}

/** Generates the comparator that will be actually used.
 *
 * <P>When a specific {@link Comparator} is specified and stored in {@link
 * #storedComparator}, we must check whether it is type-specific. If it is
 * so, we can use it directly, and we store it in {@link #actualComparator}. Otherwise,
 * we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
 * and makes it into a type-specific one.
 */
private void setActualComparator() {
    #if #keyclass(Object)
        actualComparator = storedComparator;
    #else
        /* If the provided comparator is already type-specific, we use it. Otherwise,
         we use a wrapper anonymous class to fake
         that it is type-specific. */
        if ( storedComparator == null || storedComparator instanceof KEY_COMPARATOR ) actualComparator =
        (KEY_COMPARATOR)storedComparator;
        else actualComparator = new KEY_COMPARATOR KEY_SUPER_GENERIC() {
            public int compare( KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2 ) {
                return storedComparator.compare( KEY2OBJ( k1 ), KEY2OBJ( k2 ) );
            }
            public int compare( KEY_GENERIC_CLASS ok1, KEY_GENERIC_CLASS ok2 ) {
                return storedComparator.compare( ok1, ok2 );
            }
        };
    #endif
}

/** Creates a new empty tree map with the given comparator.
 *
 * @param c a (possibly type-specific) comparator.

```

```

*/

public RB_TREE_MAP( final Comparator<? super KEY_GENERIC_CLASS> c ) {
    this();
    storedComparator = c;
    setActualComparator();
}

/** Creates a new tree map copying a given map.
 *
 * @param m a {@link Map} to be copied into the new tree map.
 */

public RB_TREE_MAP( final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS>
m
) {
    this();
    putAll( m );
}

/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
 *
 * @param m a {@link SortedMap} to be copied into the new tree map.
 */

public RB_TREE_MAP( final SortedMap<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> m ) {
    this( m.comparator() );
    putAll( m );
}

/** Creates a new tree map copying a given map.
 *
 * @param m a type-specific map to be copied into the new tree map.
 */

public RB_TREE_MAP( final MAP KEY_VALUE_EXTENDS_GENERIC m ) {
    this();
    putAll( m );
}

/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
 *
 * @param m a type-specific sorted map to be copied into the new tree map.
 */

public RB_TREE_MAP( final SORTED_MAP KEY_VALUE_GENERIC m ) {
    this( m.comparator() );
}

```

```

putAll( m );
}

/** Creates a new tree map using the elements of two parallel arrays and the given comparator.
 *
 * @param k the array of keys of the new tree map.
 * @param v the
array of corresponding values in the new tree map.
 * @param c a (possibly type-specific) comparator.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

public RB_TREE_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[], final
Comparator<? super KEY_GENERIC_CLASS> c ) {
    this( c );
    if ( k.length != v.length ) throw new IllegalArgumentException( "The key array and the value array have different
lengths ( " + k.length + " and " + v.length + " ) );
    for( int i = 0; i < k.length; i++ ) this.put( k[ i ], v[ i ] );
}

/** Creates a new tree map using the elements of two parallel arrays.
 *
 * @param k the array of keys of the new tree map.
 * @param v the array of corresponding values in the new tree map.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

public RB_TREE_MAP( final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[] ) {
    this( k, v, null );
}

/**

 * The following methods implements some basic building blocks used by
 * all accessors. They are (and should be maintained) identical to those used in RBTreeSet.drv.
 *
 * The put()/remove() code is derived from Ben Pfaff's GNU libavl
 * (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
 * going on, you should have a look at the literate code contained therein
 * first.
 */

/** Compares two keys in the right way.
 *
 * <P>This method uses the { @link #actualComparator } if it is non-<code>>null</code>.
 * Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo() }.
 */

```

```

* @param k1 the first key.
* @param k2 the second key.
* @return a number smaller than, equal to or greater than 0, as usual
* (i.e., when k1 < k2, k1 = k2 or k1 > k2, respectively).
*/

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

final int compare( final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2 ) {
    return actualComparator
    == null ? KEY_CMP( k1, k2 ) : actualComparator.compare( k1, k2 );
}

```

```

/** Returns the entry corresponding to the given key, if it is in the tree; <code>null</code>, otherwise.
*
* @param k the key to search for.
* @return the corresponding entry, or <code>null</code> if no entry with the given key exists.
*/

```

```

final Entry KEY_VALUE_GENERIC findKey( final KEY_GENERIC_TYPE k ) {
    Entry KEY_VALUE_GENERIC e = tree;
    int cmp;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 ) e = cmp < 0 ? e.left() : e.right();

    return e;
}

```

```

/** Locates a key.
*
* @param k a key.
* @return the last entry on a search for the given key; this will be
* the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
*/

```

```

final Entry KEY_VALUE_GENERIC locateKey( final KEY_GENERIC_TYPE k ) {
    Entry KEY_VALUE_GENERIC e = tree, last = tree;
    int cmp = 0;

    while ( e != null && ( cmp = compare( k, e.key ) ) != 0 ) {
        last
        = e;
        e = cmp < 0 ? e.left() : e.right();
    }

    return cmp == 0 ? e : last;
}

```

```

/** This vector remembers the path and the direction followed during the
 * current insertion. It suffices for about 2<sup>32</sup> entries. */
private transient boolean dirPath[];
private transient Entry KEY_VALUE_GENERIC nodePath[];

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
private void allocatePaths() {
    dirPath = new boolean[ 64 ];
    nodePath = new Entry[ 64 ];
}

#if #values(primitive) && !#valueclass(Boolean)
/** Adds an increment to value currently associated with a key.
 *
 * <P>Note that this method respects the { @linkplain #defaultReturnValue() default return value } semantics: when
 * called with a key that does not currently appears in the map, the key
 * will be associated with the default return value plus
 * the given increment.
 *
 * @param k the key.
 * @param incr the increment.
 * @return the old value, or the { @linkplain #defaultReturnValue() default return value } if
 * no value was present for the given key.
 */
public VALUE_GENERIC_TYPE addTo( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE incr) {
    Entry KEY_VALUE_GENERIC e = add( k );
    final VALUE_GENERIC_TYPE oldValue = e.value;
    e.value += incr;
    return oldValue;
}
#endif

public VALUE_GENERIC_TYPE put( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
    Entry KEY_VALUE_GENERIC e = add( k );
    final VALUE_GENERIC_TYPE oldValue = e.value;
    e.value = v;
    return oldValue;
}

/** Returns a node with key k in the balanced tree, creating one with defRetVal if necessary.
 *
 * @param k the key
 * @return a node with key k. If a node with key k already exists, then that node is returned,
 * otherwise a new node with defRetVal is created ensuring that the tree is balanced
 * after creation of the node.
 */
private Entry KEY_VALUE_GENERIC add( final KEY_GENERIC_TYPE k ) {

```

```

/* After execution of this method, modified is true iff a new entry has
been inserted. */
modified
= false;
int maxDepth = 0;

Entry KEY_VALUE_GENERIC e;

if ( tree == null ) { // The case of the empty tree is treated separately.
count++;
e = tree = lastEntry = firstEntry = new Entry KEY_VALUE_GENERIC( k, defRetValue );
}
else {
Entry KEY_VALUE_GENERIC p = tree;
int cmp, i = 0;

while( true ) {
if ( ( cmp = compare( k, p.key ) ) == 0 ) {
// We clean up the node path, or we could have stale references later.
while( i-- != 0 ) nodePath[ i ] = null;
return p;
}

nodePath[ i ] = p;

if ( dirPath[ i++ ] = cmp > 0 ) {
if ( p.succ() ) {
count++;
e = new Entry KEY_VALUE_GENERIC( k, defRetValue );

if ( p.right == null ) lastEntry = e;

e.left = p;
e.right = p.right;

p.right( e );

break;
}

p = p.right;
}
else {
if ( p.pred() ) {
count++;
e = new Entry KEY_VALUE_GENERIC( k, defRetValue );

if

```

```

( p.left == null ) firstEntry = e;

    e.right = p;
    e.left = p.left;

    p.left( e );

    break;
}

p = p.left;
}
}

modified = true;
maxDepth = i--;

while( i > 0 && ! nodePath[ i ].black() ) {
    if ( ! dirPath[ i - 1 ] ) {
        Entry KEY_VALUE_GENERIC y = nodePath[ i - 1 ].right;

        if ( ! nodePath[ i - 1 ].succ() && ! y.black() ) {
            nodePath[ i ].black( true );
            y.black( true );
            nodePath[ i - 1 ].black( false );
            i -= 2;
        }
        else {
            Entry KEY_VALUE_GENERIC x;

            if ( ! dirPath[ i ] ) y = nodePath[ i ];
            else {
                x = nodePath[ i ];
                y = x.right;
                x.right = y.left;
                y.left = x;
                nodePath[ i - 1 ].left = y;

                if ( y.pred() ) {
                    y.pred( false );
                    x.succ( y );
                }
            }

            x = nodePath[ i - 1 ];
            x.black( false );
            y.black( true );

```

```

x.left = y.right;
y.right = x;
if ( i < 2 )
tree = y;
else {
if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = y;
else nodePath[ i - 2 ].left = y;
}

if ( y.succ() ) {
y.succ( false );
x.pred( y );
}
break;
}
}
else {
Entry KEY_VALUE_GENERIC y = nodePath[ i - 1 ].left;

if ( ! nodePath[ i - 1 ].pred() && ! y.black() ) {
nodePath[ i ].black( true );
y.black( true );
nodePath[ i - 1 ].black( false );
i -= 2;
}
else {
Entry KEY_VALUE_GENERIC x;

if ( dirPath[ i ] ) y = nodePath[ i ];
else {
x = nodePath[ i ];
y = x.left;
x.left = y.right;
y.right = x;
nodePath[ i - 1 ].right = y;

if ( y.succ() ) {
y.succ( false );
x.pred( y );
}

}

x = nodePath[ i - 1 ];
x.black( false );
y.black( true );

x.right = y.left;

```

```

    y.left = x;
    if ( i < 2 ) tree = y;
    else {
        if ( dirPath[ i - 2
] ) nodePath[ i - 2 ].right = y;
        else nodePath[ i - 2 ].left = y;
    }

    if ( y.pred() ){
        y.pred( false );
        x.succ( y );
    }

    break;
}
}
}
}
tree.black( true );
// We clean up the node path, or we could have stale references later.
while( maxDepth-- != 0 ) nodePath[ maxDepth ] = null;
if ( ASSERTS ) {
    checkNodePath();
    checkTree( tree, 0, -1 );
}
return e;
}

```

/* After execution of this method, { @link #modified } is true iff an entry has been deleted. */

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE( final KEY_TYPE k ) {
    modified = false;

    if ( tree == null ) return defRetVal;

    Entry KEY_VALUE_GENERIC p = tree;
    int cmp;
    int i = 0;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

    while( true ) {
        if ( ( cmp = compare( kk, p.key ) ) == 0 ) break;

        dirPath[ i ] = cmp > 0;
        nodePath[ i ] = p;
    }
}

```

```

if ( dirPath[ i++ ] ) {
    if ( ( p = p.right() ) == null ) {
        //
We clean up the node path, or we could have stale references later.
        while( i-- != 0 ) nodePath[ i ] = null;
        return defRetVal;
    }
}
else {
    if ( ( p = p.left() ) == null ) {
        // We clean up the node path, or we could have stale references later.
        while( i-- != 0 ) nodePath[ i ] = null;
        return defRetVal;
    }
}

}

if ( p.left == null ) firstEntry = p.next();
if ( p.right == null ) lastEntry = p.prev();

if ( p.succ() ) {
    if ( p.pred() ) {
        if ( i == 0 ) tree = p.left;
        else {
            if ( dirPath[ i - 1 ] ) nodePath[ i - 1 ].succ( p.right );
            else nodePath[ i - 1 ].pred( p.left );
        }
    }
}
else {
    p.prev().right = p.right;

    if ( i == 0 ) tree = p.left;
    else {
        if ( dirPath[ i - 1 ] ) nodePath[ i - 1 ].right = p.left;
        else nodePath[ i - 1 ].left = p.left;
    }
}
}
else {
    boolean color;
    Entry KEY_VALUE_GENERIC r = p.right;

    if ( r.pred() ) {
        r.left = p.left;
        r.pred( p.pred()

```

```

);
if ( ! r.pred() ) r.prev().right = r;
if ( i == 0 ) tree = r;
else {
    if ( dirPath[ i - 1 ] ) nodePath[ i - 1 ].right = r;
    else nodePath[ i - 1 ].left = r;
}

color = r.black();
r.black( p.black() );
p.black( color );
dirPath[ i ] = true;
nodePath[ i++ ] = r;
}
else {
    Entry KEY_VALUE_GENERIC s;
    int j = i++;

    while( true ) {
        dirPath[ i ] = false;
        nodePath[ i++ ] = r;
        s = r.left;
        if ( s.pred() ) break;
        r = s;
    }

    dirPath[ j ] = true;
    nodePath[ j ] = s;

    if ( s.succ() ) r.pred( s );
    else r.left = s.right;

    s.left = p.left;

    if ( ! p.pred() ) {
        p.prev().right = s;
        s.pred( false );
    }

    s.right( p.right );

    color = s.black();
    s.black( p.black() );
    p.black( color );

    if ( j == 0 ) tree = s;
    else {
        if ( dirPath[ j - 1 ] ) nodePath[ j - 1 ].right = s;

```

```

else nodePath[ j - 1 ].left = s;
}
}
}

int maxDepth = i;

if
( p.black() ) {
for( ; i > 0; i-- ) {
if ( dirPath[ i - 1 ] && ! nodePath[ i - 1 ].succ() ||
! dirPath[ i - 1 ] && ! nodePath[ i - 1 ].pred() ) {
Entry KEY_VALUE_GENERIC x = dirPath[ i - 1 ] ? nodePath[ i - 1 ].right : nodePath[ i - 1 ].left;

if ( ! x.black() ) {
x.black( true );
break;
}
}

if ( ! dirPath[ i - 1 ] ) {
Entry KEY_VALUE_GENERIC w = nodePath[ i - 1 ].right;

if ( ! w.black() ) {
w.black( true );
nodePath[ i - 1 ].black( false );

nodePath[ i - 1 ].right = w.left;
w.left = nodePath[ i - 1 ];

if ( i < 2 ) tree = w;
else {
if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
else nodePath[ i - 2 ].left = w;
}

nodePath[ i ] = nodePath[ i - 1 ];
dirPath[ i ] = false;
nodePath[ i - 1 ] = w;
if ( maxDepth == i++ ) maxDepth++;

w = nodePath[ i - 1 ].right;
}

if ( ( w.pred() || w.left.black() ) &&
( w.succ() || w.right.black()
)) {
w.black( false );

```

```

}
else {
  if ( w.succ() || w.right.black() ) {
    Entry KEY_VALUE_GENERIC y = w.left;

    y.black ( true );
    w.black( false );
    w.left = y.right;
    y.right = w;
    w = nodePath[ i - 1 ].right = y;

    if ( w.succ() ) {
      w.succ( false );
      w.right.pred( w );
    }
  }

  w.black( nodePath[ i - 1 ].black() );
  nodePath[ i - 1 ].black( true );
  w.right.black( true );

  nodePath[ i - 1 ].right = w.left;
  w.left = nodePath[ i - 1 ];

  if ( i < 2 ) tree = w;
  else {
    if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
    else nodePath[ i - 2 ].left = w;
  }

  if ( w.pred() ) {
    w.pred( false );
    nodePath[ i - 1 ].succ( w );
  }
  break;
}
}
else {
  Entry KEY_VALUE_GENERIC w = nodePath[ i - 1 ].left;

  if ( ! w.black() ) {
    w.black ( true );
    nodePath[ i - 1 ].black( false
);

  nodePath[ i - 1 ].left = w.right;
  w.right = nodePath[ i - 1 ];

```

```

if ( i < 2 ) tree = w;
else {
    if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
    else nodePath[ i - 2 ].left = w;
}

nodePath[ i ] = nodePath[ i - 1 ];
dirPath[ i ] = true;
nodePath[ i - 1 ] = w;
if ( maxDepth == i++ ) maxDepth++;

w = nodePath[ i - 1 ].left;
}

if ( ( w.pred() || w.left.black() ) &&
    ( w.succ() || w.right.black() ) ) {
    w.black( false );
}
else {
    if ( w.pred() || w.left.black() ) {
        Entry KEY_VALUE_GENERIC y = w.right;

        y.black( true );
        w.black ( false );
        w.right = y.left;
        y.left = w;
        w = nodePath[ i - 1 ].left = y;

        if ( w.pred() ) {
            w.pred( false );
            w.left.succ( w );
        }
    }

    w.black( nodePath[ i - 1 ].black() );
    nodePath[ i - 1 ].black( true );
    w.left.black( true );

    nodePath[ i - 1
].left = w.right;
    w.right = nodePath[ i - 1 ];

    if ( i < 2 ) tree = w;
    else {
        if ( dirPath[ i - 2 ] ) nodePath[ i - 2 ].right = w;
        else nodePath[ i - 2 ].left = w;
    }
}

```

```

    if ( w.succ() ) {
        w.succ( false );
        nodePath[ i - 1 ].pred( w );
    }
    break;
}
}
}

if ( tree != null ) tree.black( true );
}

modified = true;
count--;
// We clean up the node path, or we could have stale references later.
while( maxDepth-- != 0 ) nodePath[ maxDepth ] = null;
if ( ASSERTS ) {
    checkNodePath();
    checkTree( tree, 0, -1 );
}
return p.value;
}

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov )
{
    final VALUE_GENERIC_TYPE oldValue = put( KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov) );
    return
    modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ( oldValue );
}
#endif

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove( final Object ok ) {
    final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE( KEY_OBJ2TYPE( ok ) );
    return modified ? VALUE2OBJ( oldValue ) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

```

```

public boolean containsValue( final VALUE_TYPE v ) {
    final ValueIterator i = new ValueIterator();
    VALUE_TYPE ev;

    int j = count;
    while( j-- != 0 ) {
        ev = i.NEXT_VALUE();
        if ( VALUE_EQUALS( ev, v ) ) return true;
    }

    return false;
}

public void clear() {
    count = 0;
    tree = null;
    entries = null;
    values = null;
    keys = null;
    firstEntry = lastEntry = null;
}

/** This class represent an entry in a tree map.
 *
 * <P>We use the only "metadata", i.e., { @link Entry#info}, to store
 * information about
 * color, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

private static final class Entry KEY_VALUE_GENERIC implements Cloneable, MAP.Entry
KEY_VALUE_GENERIC {
    /** The the bit in this mask is true, the node is black. */
    private final static int BLACK_MASK = 1;
    /** If the bit in this mask is true, { @link #right} points to a successor. */
    private final static int SUCC_MASK = 1 << 31;
    /** If the bit in this mask is true, { @link #left} points to a predecessor. */
    private final static int PRED_MASK = 1 << 30;
    /** The key of this entry. */
    KEY_GENERIC_TYPE key;
    /** The value of this entry. */
    VALUE_GENERIC_TYPE value;
}

```

```

/** The pointers to the left and right subtrees. */
Entry KEY_VALUE_GENERIC left, right;
/** This integers holds different information in different bits (see { @link #SUCC_MASK} and { @link
#PRED_MASK}. */
int info;

Entry() {}

/** Creates a new entry
with the given key and value.
*
* @param k a key.
* @param v a value.
*/
Entry( final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v ) {
    this.key = k;
    this.value = v;
    info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
*
* @return the left subtree (<code>null</code> if the left
* subtree is empty).
*/
Entry KEY_VALUE_GENERIC left() {
    return ( info & PRED_MASK ) != 0 ? null : left;
}

/** Returns the right subtree.
*
* @return the right subtree (<code>null</code> if the right
* subtree is empty).
*/
Entry KEY_VALUE_GENERIC right() {
    return ( info & SUCC_MASK ) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
* @return true if the left pointer is a predecessor.
*/
boolean pred() {
    return ( info & PRED_MASK ) != 0;
}

/** Checks whether the right pointer is really a successor.
* @return true if the right pointer is a successor.
*/

```

```

boolean
succ() {
    return ( info & SUCC_MASK ) != 0;
}

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred( final boolean pred ) {
    if ( pred ) info |= PRED_MASK;
    else info &= ~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ( final boolean succ ) {
    if ( succ ) info |= SUCC_MASK;
    else info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred( final Entry KEY_VALUE_GENERIC pred ) {
    info |= PRED_MASK;
    left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ( final Entry KEY_VALUE_GENERIC succ ) {
    info |= SUCC_MASK;
    right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param
left the new left subtree.
 */
void left( final Entry KEY_VALUE_GENERIC left ) {
    info &= ~PRED_MASK;
    this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.

```

```

*/
void right( final Entry KEY_VALUE_GENERIC right ) {
    info &= ~SUCC_MASK;
    this.right = right;
}

/** Returns whether this node is black.
 * @return true iff this node is black.
 */
boolean black() {
    return ( info & BLACK_MASK ) != 0;
}

/** Sets whether this node is black.
 * @param black if true, then this node becomes black; otherwise, it becomes red..
 */
void black( final boolean black ) {
    if ( black ) info |= BLACK_MASK;
    else info &= ~BLACK_MASK;
}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>>null</code>) if this is the last entry).
 */
Entry KEY_VALUE_GENERIC next() {
    Entry KEY_VALUE_GENERIC next = this.right;
    if ( ( info & SUCC_MASK ) == 0 ) while
    ( ( next.info & PRED_MASK ) == 0 ) next = next.left;
    return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */
Entry KEY_VALUE_GENERIC prev() {
    Entry KEY_VALUE_GENERIC prev = this.left;
    if ( ( info & PRED_MASK ) == 0 ) while ( ( prev.info & SUCC_MASK ) == 0 ) prev = prev.right;
    return prev;
}

#if #keys(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */

```

```

    @Deprecated
#endif
    public KEY_GENERIC_CLASS getKey() {
        return KEY2OBJ(key);
    }

    #if ! #keyclass(Object)
    public KEY_GENERIC_TYPE ENTRY_GET_KEY() {
        return key;
    }
#endif

    #if #values(primitive)
    /** {@inheritDoc}
     * @deprecated Please use the corresponding type-specific method instead. */
    @Deprecated
#endif
    public VALUE_GENERIC_CLASS getValue() {
        return VALUE2OBJ(value);
    }

    #if #values(primitive)
    public VALUE_TYPE ENTRY_GET_VALUE()
    {
        return value;
    }
#endif

    public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE value) {
        final VALUE_GENERIC_TYPE oldValue = this.value;
        this.value = value;
        return oldValue;
    }

    #if #values(primitive)

    public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS value) {
        return VALUE2OBJ(setValue(VALUE_CLASS2TYPE(value)));
    }

#endif

    SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
    public Entry KEY_VALUE_GENERIC clone() {
        Entry KEY_VALUE_GENERIC c;
        try {
            c = (Entry KEY_VALUE_GENERIC)super.clone();
        }
    }

```

```

catch(CloneNotSupportedException cantHappen) {
    throw new InternalError();
}

c.key = key;
c.value = value;
c.info = info;

return c;
}

@SuppressWarnings("unchecked")
public boolean equals( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry <KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

    return KEY_EQUALS(
key, KEY_CLASS2TYPE( e.getKey() ) ) && VALUE_EQUALS( value, VALUE_CLASS2TYPE( e.getValue() )
);
}

public int hashCode() {
    return KEY2JAVAHASH_NOT_NULL(key) ^ VALUE2JAVAHASH(value);
}

public String toString() {
    return key + "=>" + value;
}

/*
public void prettyPrint() {
    prettyPrint(0);
}

public void prettyPrint(int level) {
    if ( pred() ) {
        for (int i = 0; i < level; i++)
            System.err.print(" ");
        System.err.println("pred: " + left );
    }
    else if (left != null)
        left.prettyPrint(level +1 );
    for (int i = 0; i < level; i++)
        System.err.print(" ");
    System.err.println(key + "=" + value + " (" + balance() + ")");
    if ( succ() ) {

```

```

    for (int i = 0; i < level; i++)
        System.err.print(" ");
    System.err.println("succ: " + right );
    }
    else if (right != null)
        right.prettyPrint(level + 1);
    }*/
}

/*
    public void prettyPrint() {
        System.err.println("size: " + count);
        if (tree
            != null) tree.prettyPrint();
    }*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey( final KEY_TYPE k ) {
    return findKey( KEY_GENERIC_CAST k ) != null;
}

public int size() {
    return count;
}

public boolean isEmpty() {
    return count == 0;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE( final KEY_TYPE k ) {
    final Entry KEY_VALUE_GENERIC e = findKey( KEY_GENERIC_CAST k );
    return e == null ? defRetVal : e.value;
}

#if #keyclass(Object) && #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get( final Object ok ) {
    final Entry KEY_VALUE_GENERIC e = findKey( KEY_GENERIC_CAST ok );
    return e == null ? OBJECT_DEFAULT_RETURN_VALUE : e.getValue();
}

#endif

```

```

public KEY_GENERIC_TYPE FIRST_KEY() {
    if ( tree == null ) throw new NoSuchElementException();
    return firstEntry.key;
}

public
KEY_GENERIC_TYPE LAST_KEY() {
    if ( tree == null ) throw new NoSuchElementException();
    return lastEntry.key;
}

/** An abstract iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class TreeIterator {
    /** The entry that will be returned by the next call to { @link java.util.ListIterator#previous()} (or
    <code>>null</code> if no previous entry exists). */
    Entry KEY_VALUE_GENERIC prev;
    /** The entry that will be returned by the next call to { @link java.util.ListIterator#next()} (or <code>>null</code> if
    no next entry exists). */
    Entry KEY_VALUE_GENERIC next;
    /** The last entry that was returned (or <code>>null</code> if we did not iterate or used { @link #remove()}). */
    Entry KEY_VALUE_GENERIC curr;
    /** The current index (in the sense of a { @link java.util.ListIterator}). Note that this value is not meaningful when
    this { @link TreeIterator} has been created using the nonempty constructor.*/
    int
    index = 0;

    TreeIterator() {
        next = firstEntry;
    }

    TreeIterator( final KEY_GENERIC_TYPE k ) {
        if ( ( next = locateKey( k ) ) != null ) {
            if ( compare( next.key, k ) <= 0 ) {
                prev = next;
                next = next.next();
            }
            else prev = next.prev();
        }
    }

    public boolean hasNext() { return next != null; }
    public boolean hasPrevious() { return prev != null; }

```

```

void updateNext() {
    next = next.next();
}

Entry KEY_VALUE_GENERIC nextEntry() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    curr = prev = next;
    index++;
    updateNext();
    return curr;
}

void updatePrevious() {
    prev = prev.prev();
}

Entry KEY_VALUE_GENERIC previousEntry() {
    if ( ! hasPrevious() ) throw new NoSuchElementException();
    curr = next = prev;
    index--;
    updatePrevious();
    return curr;
}

public int nextIndex() {
    return index;
}

public int previousIndex() {
    return index - 1;
}

public void remove() {
    if ( curr == null
) throw new IllegalStateException();
    /* If the last operation was a next(), we are removing an entry that precedes
    the current index, and thus we must decrement it. */
    if ( curr == prev ) index--;
    next = prev = curr;
    updatePrevious();
    updateNext();
    RB_TREE_MAP.this.REMOVE_VALUE( curr.key );
    curr = null;
}

public int skip( final int n ) {
    int i = n;

```

```

while( i-- != 0 && hasNext() ) nextEntry();
return n - i - 1;
}

public int back( final int n ) {
int i = n;
while( i-- != 0 && hasPrevious() ) previousEntry();
return n - i - 1;
}
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class EntryIterator extends TreeIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
EntryIterator() {}

EntryIterator( final KEY_GENERIC_TYPE k ) {
super( k );
}

public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
public MAP.Entry
KEY_VALUE_GENERIC previous() { return previousEntry(); }

public void set( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
public void add( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
if ( entries == null ) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
final Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator = new Comparator<MAP.Entry
KEY_VALUE_GENERIC> () {
public int compare( final MAP.Entry KEY_VALUE_GENERIC x, MAP.Entry KEY_VALUE_GENERIC y ) {
return RB_TREE_MAP.this.actualComparator.compare( x.ENTRY_GET_KEY(), y.ENTRY_GET_KEY() );
}
};
};

public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() {
return comparator;
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {

```

```

    return new EntryIterator();
}

public ObjectBidirectionalIterator<MAP.Entry
KEY_VALUE_GENERIC> iterator( final MAP.Entry KEY_VALUE_GENERIC from ) {
    return new EntryIterator( from.ENTRY_GET_KEY() );
}

@SuppressWarnings("unchecked")
public boolean contains( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
    final Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
    return e.equals( f );
}

@SuppressWarnings("unchecked")
public boolean remove( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
    final Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
    if ( f != null ) RB_TREE_MAP.this.REMOVE_VALUE( f.key );
    return f != null;
}

public int size() { return count; }
public
void clear() { RB_TREE_MAP.this.clear(); }

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry; }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry; }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet( MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to ) { return subMap( from.ENTRY_GET_KEY(),
to.ENTRY_GET_KEY() ).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet( MAP.Entry KEY_VALUE_GENERIC to
) { return headMap( to.ENTRY_GET_KEY() ).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet( MAP.Entry KEY_VALUE_GENERIC
from ) { return tailMap( from.ENTRY_GET_KEY() ).ENTRYSET(); }
};

return entries;
}

/** An iterator on the whole range of keys.
 *
 * <P>This class can iterate in both directions on the keys of a threaded tree. We

```

```

* simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and
possibly
*
their type-specific counterparts) so that they return keys instead of entries.
*/
private final class KeyIterator extends TreeIterator implements KEY_LIST_ITERATOR KEY_GENERIC {
    public KeyIterator() {}
    public KeyIterator( final KEY_GENERIC_TYPE k ) { super( k ); }
    public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
    public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

    public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
    public void add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }

#ifdef !keyclass(Object)
    public KEY_GENERIC_CLASS next() { return KEY2OBJ( nextEntry().key ); }
    public KEY_GENERIC_CLASS previous() { return KEY2OBJ( previousEntry().key ); }
    public void set( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
    public void add( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

/** A keyset implementation using a more direct implementation
for iterators. */
private class KeySet extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC.KeySet {
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new KeyIterator(); }
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return new
KeyIterator( from ); }
}

/** Returns a type-specific sorted set view of the keys contained in this map.
*
* <P>In addition to the semantics of {@link java.util.Map#keySet()}, you can
* safely cast the set returned by this call to a type-specific sorted
* set interface.
*
* @return a type-specific sorted set view of the keys contained in this map.
*/
public SORTED_SET KEY_GENERIC keySet() {
    if ( keys == null ) keys = new KeySet();
    return keys;
}

/** An iterator on the whole range of values.
*
* <P>This class can iterate in both directions on the values of a threaded tree. We
* simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and

```

possibly

* their type-specific counterparts) so that they return values instead of entries.

*/

```
private final class ValueIterator extends TreeIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
    public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
    public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
    public void set( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
    public void add( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
```

```
#if #values(primitive)
```

```
    public VALUE_GENERIC_CLASS next() { return VALUE2OBJ( nextEntry().value ); }
    public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ( previousEntry().value ); }
    public void set( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
    public void add( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
```

```
#endif
```

```
};
```

```
/** Returns a type-specific collection view of the values contained in this map.
```

```
*
```

```
* <P>In addition
```

```
to the semantics of { @link java.util.Map#values() }, you can
```

```
* safely cast the collection returned by this call to a type-specific collection
```

```
* interface.
```

```
*
```

```
* @return a type-specific collection view of the values contained in this map.
```

```
*/
```

```
public VALUE_COLLECTION VALUE_GENERIC values() {
    if ( values == null ) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
        public VALUE_ITERATOR VALUE_GENERIC iterator() {
            return new ValueIterator();
        }
    }
```

```
    public boolean contains( final VALUE_TYPE k ) {
        return containsValue( k );
    }
```

```
    public int size() {
        return count;
    }
```

```
    public void clear() {
        RB_TREE_MAP.this.clear();
    }
```

```
};
```

```
return values;
```

```

}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap( KEY_GENERIC_TYPE to ) {
    return new Submap( KEY_NULL, true, to, false );
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap( KEY_GENERIC_TYPE
from ) {
    return new Submap( from, false, KEY_NULL, true );
}

public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to ) {
    return new Submap( from, false, to, false );
}

/** A submap with given range.
 *
 * <P>This class represents a submap. One has to specify the left/right
 * limits (which can be set to  $-\infty$ ; or  $\infty$ ;. Since the submap is a
 * view on the map, at a given moment it could happen that the limits of
 * the range are not any longer in the main map. Thus, things such as
 * { @link java.util.SortedMap#firstKey()} or { @link java.util.Collection#size()} must be always computed
 * on-the-fly.
 */
private final class Submap extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC implements
java.io.Serializable {
    private static final long serialVersionUID = -7046029254386353129L;

    /** The start of the submap range, unless { @link #bottom} is true. */
    KEY_GENERIC_TYPE from;
    /** The end of the submap range, unless { @link #top}
is true. */
    KEY_GENERIC_TYPE to;
    /** If true, the submap range starts from  $-\infty$ ;. */
    boolean bottom;
    /** If true, the submap range goes to  $\infty$ ;. */
    boolean top;
    /** Cached set of entries. */
    @SuppressWarnings("hiding")
    protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;
    /** Cached set of keys. */
    @SuppressWarnings("hiding")
    protected transient volatile SORTED_SET KEY_GENERIC keys;

```

```

/** Cached collection of values. */
@SuppressWarnings("hiding")
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

/** Creates a new submap with given key range.
 *
 * @param from the start of the submap range.
 * @param bottom if true, the first parameter is ignored and the range starts from -&infin;.
 * @param to the end of the submap range.
 * @param top if true, the third parameter is ignored and the range goes to &infin;.
 */
public Submap( final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE
to, final boolean top ) {
    if ( ! bottom && ! top && RB_TREE_MAP.this.compare( from, to ) > 0 ) throw new IllegalArgumentException(
"Start key (" + from + ") is larger than end key (" + to + ")");

    this.from = from;
    this.bottom = bottom;
    this.to = to;
    this.top = top;
    this.defRetValue = RB_TREE_MAP.this.defRetValue;
}

public void clear() {
    final SubmapIterator i = new SubmapIterator();
    while( i.hasNext() ) {
        i.nextEntry();
        i.remove();
    }
}

/** Checks whether a key is in the submap range.
 * @param k a key.
 * @return true if is the key is in the submap range.
 */
final boolean in( final KEY_GENERIC_TYPE k ) {
    return ( bottom || RB_TREE_MAP.this.compare( k, from ) >= 0 ) &&
( top || RB_TREE_MAP.this.compare( k, to ) < 0 );
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
    if ( entries == null ) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
        public ObjectBidirectionalIterator<MAP.Entry
KEY_VALUE_GENERIC> iterator() {
            return new SubmapEntryIterator();
        }
    }

    public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator( final MAP.Entry

```

```

KEY_VALUE_GENERIC from ) {
    return new SubmapEntryIterator( from.ENTRY_GET_KEY() );
}

public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() { return
RB_TREE_MAP.this.ENTRYSET().comparator(); }

@SuppressWarnings("unchecked")
public boolean contains( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
    final RB_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
    return f != null && in( f.key ) && e.equals( f );
}

@SuppressWarnings("unchecked")
public boolean remove( final Object o ) {
    if (!(o instanceof Map.Entry)) return false;
    final Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
    final RB_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey( KEY_CLASS2TYPE( e.getKey() ) );
    if ( f != null && in( f.key ) ) Submap.this.REMOVE_VALUE( f.key );
    return f != null;
}

public int size() {
    int c = 0;
    for( Iterator<?> i = iterator(); i.hasNext(); i.next() ) c++;
    return c;
}

public boolean isEmpty() { return ! new SubmapIterator().hasNext(); }
public void clear() { Submap.this.clear(); }

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry(); }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet( MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to ) { return subMap( from.ENTRY_GET_KEY(),
to.ENTRY_GET_KEY() ).ENTRYSET(); }
    public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet( MAP.Entry KEY_VALUE_GENERIC
to ) { return headMap( to.ENTRY_GET_KEY() ).ENTRYSET(); }
    public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet( MAP.Entry KEY_VALUE_GENERIC
from ) { return tailMap( from.ENTRY_GET_KEY() ).ENTRYSET(); }
};

return entries;
}

```

```

private class KeySet extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC.KeySet {
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new SubmapKeyIterator(); }
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return new
SubmapKeyIterator( from ); }
}

public SORTED_SET KEY_GENERIC keySet() {
    if ( keys == null ) keys = new KeySet();
    return keys;
}

public VALUE_COLLECTION VALUE_GENERIC values() {
    if ( values == null ) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
        public VALUE_ITERATOR VALUE_GENERIC iterator() {
            return new SubmapValueIterator();
        }
    }

    public boolean contains( final VALUE_TYPE k ) {
        return containsValue( k );
    }

    public int
size() {
        return Submap.this.size();
    }

    public void clear() {
        Submap.this.clear();
    }

};

return values;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey( final KEY_TYPE k ) {
    return in( KEY_GENERIC_CAST k ) && RB_TREE_MAP.this.containsKey( k );
}

public boolean containsValue( final VALUE_TYPE v ) {
    final SubmapIterator i = new SubmapIterator();
    VALUE_TYPE ev;

    while( i.hasNext() ) {
        ev = i.nextEntry().value;
        if ( VALUE_EQUALS( ev, v ) ) return true;
    }
}

```

```

    }

    return false;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
    final RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;
    return in( kk ) && ( e = findKey( kk ) ) != null ? e.value : this.defRetValue;
}

#if #keyclass(Object) && #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific
method instead. */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get( final Object ok ) {
    final RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST KEY_OBJ2TYPE( ok );
    return in( kk ) && ( e = findKey( kk ) ) != null ? e.getValue() : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
    modified = false;
    if ( ! in( k ) ) throw new IllegalArgumentException( "Key (" + k + ") out of range [" + ( bottom ? "-" :
String.valueOf( from ) ) + ", " + ( top ? "-" : String.valueOf( to ) ) + "]" );
    final VALUE_GENERIC_TYPE oldValue = RB_TREE_MAP.this.put( k, v );
    return modified ? this.defRetValue : oldValue;
}

#if ! #keyclass(Object) || #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS
put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov ) {
    final VALUE_GENERIC_TYPE oldValue = put( KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov) );
    return modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ( oldValue );
}
#endif

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE( final KEY_TYPE k ) {
    modified = false;
    if ( ! in( KEY_GENERIC_CAST k ) ) return this.defRetVal;
    final VALUE_GENERIC_TYPE oldValue = RB_TREE_MAP.this.REMOVE_VALUE( k );
    return modified ? oldValue : this.defRetVal;
}

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove( final Object ok ) {
    final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE( KEY_OBJ2TYPE( ok ) );
    return modified ? VALUE2OBJ( oldValue ) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

public int size() {
    final SubmapIterator i = new SubmapIterator();
    int
n = 0;

    while( i.hasNext() ) {
        n++;
        i.nextEntry();
    }

    return n;
}

public boolean isEmpty() {
    return ! new SubmapIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
    return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_TYPE to ) {
    if ( top ) return new Submap( from, bottom, to, false );
    return compare( to, this.to ) < 0 ? new Submap( from, bottom, to, false ) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_TYPE from ) {

```

```

if ( bottom ) return new Submap( from, false, to, top );
return compare( from, this.from ) > 0 ? new Submap( from, false, to, top ) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC subMap( KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to ) {
    if ( top && bottom ) return new Submap( from, false, to, false );
    if ( ! top ) to = compare( to, this.to ) < 0 ? to : this.to;
    if ( ! bottom )
from = compare( from, this.from ) > 0 ? from : this.from;
    if ( ! top && ! bottom && from == this.from && to == this.to ) return this;
    return new Submap( from, false, to, false );
}

/** Locates the first entry.
 *
 * @return the first entry of this submap, or <code>null</code> if the submap is empty.
 */
public RB_TREE_MAP.Entry KEY_VALUE_GENERIC firstEntry() {
    if ( tree == null ) return null;
    // If this submap goes to -infinity, we return the main map first entry; otherwise, we locate the start of the map.
    RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    if ( bottom ) e = firstEntry();
    else {
        e = locateKey( from );
        // If we find either the start or something greater we're OK.
        if ( compare( e.key, from ) < 0 ) e = e.next();
    }
    // Finally, if this submap doesn't go to infinity, we check that the resulting key isn't greater than the end.
    if ( e == null || ! top && compare( e.key, to ) >= 0 ) return null;
    return e;
}

/** Locates the last
entry.
 *
 * @return the last entry of this submap, or <code>null</code> if the submap is empty.
 */
public RB_TREE_MAP.Entry KEY_VALUE_GENERIC lastEntry() {
    if ( tree == null ) return null;
    // If this submap goes to infinity, we return the main map last entry; otherwise, we locate the end of the map.
    RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
    if ( top ) e = lastEntry();
    else {
        e = locateKey( to );
        // If we find something smaller than the end we're OK.
        if ( compare( e.key, to ) >= 0 ) e = e.prev();
    }
}

```

```

// Finally, if this submap doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
if ( e == null || ! bottom && compare( e.key, from ) < 0 ) return null;
return e;
}

public KEY_GENERIC_TYPE FIRST_KEY() {
    RB_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

public KEY_GENERIC_TYPE LAST_KEY() {
    RB_TREE_MAP.Entry KEY_VALUE_GENERIC
e = lastEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.key;
}

#if !#keyclass(Object)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS firstKey() {
    RB_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.getKey();
}

/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS lastKey() {
    RB_TREE_MAP.Entry KEY_VALUE_GENERIC e = lastEntry();
    if ( e == null ) throw new NoSuchElementException();
    return e.getKey();
}
#endif

/** An iterator for subranges.
 *
 * <P>This class inherits from { @link TreeIterator}, but overrides the methods that
 * update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
would
 * move
out of the range of the submap we just overwrite the next or previous
 * entry with <code>null</code>.
 */

```

```

private class SubmapIterator extends TreeIterator {
    SubmapIterator() {
        next = firstEntry();
    }

    SubmapIterator( final KEY_GENERIC_TYPE k ) {
        this();

        if ( next != null ) {
            if ( ! bottom && compare( k, next.key ) < 0 ) prev = null;
            else if ( ! top && compare( k, ( prev = lastEntry() ).key ) >= 0 ) next = null;
            else {
                next = locateKey( k );

                if ( compare( next.key, k ) <= 0 ) {
                    prev = next;
                    next = next.next();
                }
                else prev = next.prev();
            }
        }
    }

    void updatePrevious() {
        prev = prev.prev();
        if ( ! bottom && prev != null && RB_TREE_MAP.this.compare( prev.key, from ) < 0 ) prev = null;
    }

    void updateNext() {
        next = next.next();
        if ( ! top && next != null && RB_TREE_MAP.this.compare( next.key, to ) >= 0 ) next = null;
    }
}

private class SubmapEntryIterator
extends SubmapIterator implements ObjectListIterator<MAP.Entry KEY_VALUE_GENERIC> {
    SubmapEntryIterator() {}

    SubmapEntryIterator( final KEY_GENERIC_TYPE k ) {
        super( k );
    }

    public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
    public MAP.Entry KEY_VALUE_GENERIC previous() { return previousEntry(); }

    public void set( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
    public void add( MAP.Entry KEY_VALUE_GENERIC ok ) { throw new UnsupportedOperationException(); }
}

```

```

/** An iterator on a subrange of keys.
 *
 * <P>This class can iterate in both directions on a subrange of the
 * keys of a threaded tree. We simply override the {@link
 * java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
 * type-specific counterparts) so that they return keys instead of
 * entries.
 */
private final class SubmapKeyIterator extends SubmapIterator implements KEY_LIST_ITERATOR
KEY_GENERIC {
    public SubmapKeyIterator() { super(); }
    public SubmapKeyIterator( KEY_GENERIC_TYPE from ) { super( from ); }
    public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
    public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }
    public void set( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
    public void add( KEY_GENERIC_TYPE k ) { throw new UnsupportedOperationException(); }
#if !#keyclass(Object)
    public KEY_GENERIC_CLASS next() { return KEY2OBJ( nextEntry().key ); }
    public KEY_GENERIC_CLASS previous() { return KEY2OBJ( previousEntry().key ); }
    public void set( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
    public void add( KEY_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

/** An iterator on a subrange of values.
 *
 * <P>This class can iterate in both directions on the values of a
 * subrange of the keys of a threaded tree. We simply override
 the
 * {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
 * type-specific counterparts) so that they return values instead of
 * entries.
 */
private final class SubmapValueIterator extends SubmapIterator implements VALUE_LIST_ITERATOR
VALUE_GENERIC {
    public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
    public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
    public void set( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }
    public void add( VALUE_GENERIC_TYPE v ) { throw new UnsupportedOperationException(); }

#if #values(primitive)
    public VALUE_GENERIC_CLASS next() { return VALUE2OBJ( nextEntry().value ); }
    public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ( previousEntry().value ); }
    public void set( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
    public void add( VALUE_CLASS ok ) { throw new UnsupportedOperationException(); }
#endif
};

```

```

}
#endif
};

}

/** Returns a deep copy of this tree map.
 *
 * <P>This method performs a deep copy of this tree map; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this tree map.
 */

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public RB_TREE_MAP KEY_VALUE_GENERIC clone() {
    RB_TREE_MAP KEY_VALUE_GENERIC c;
    try {
        c = (RB_TREE_MAP KEY_VALUE_GENERIC)super.clone();
    }
    catch(CloneNotSupportedException cantHappen) {
        throw new InternalError();
    }

    c.keys = null;
    c.values = null;
    c.entries = null;
    c.allocatePaths();

    if ( count != 0 ) {
        // Also this apparently unfathomable code is derived from GNU libavl.
        Entry KEY_VALUE_GENERIC e, p, q, rp = new Entry KEY_VALUE_GENERIC(), rq = new Entry
        KEY_VALUE_GENERIC();

        p = rp;
        rp.left( tree );

        q = rq;
        rq.pred( null );

        while( true ) {
            if ( ! p.pred() ) {
                e = p.left.clone();
                e.pred(
                    q.left );
                e.succ( q );
            }
        }
    }
}

```

```

q.left( e );

p = p.left;
q = q.left;
}
else {
while( p.succ() ) {
p = p.right;

if ( p == null ) {
q.right = null;
c.tree = rq.left;

c.firstEntry = c.tree;
while( c.firstEntry.left != null ) c.firstEntry = c.firstEntry.left;
c.lastEntry = c.tree;
while( c.lastEntry.right != null ) c.lastEntry = c.lastEntry.right;

return c;
}
q = q.right;
}

p = p.right;
q = q.right;
}

if ( ! p.succ() ) {
e = p.right.clone();
e.succ( q.right );
e.pred( q );
q.right( e );
}
}
}

return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
int n = count;
EntryIterator i = new EntryIterator();
Entry KEY_VALUE_GENERIC e;

s.defaultWriteObject();

while(n-- != 0) {

```

```

    e = i.nextEntry();
    s.WRITE_KEY( e.key );
    s.WRITE_VALUE( e.value );
}
}

/** Reads
the given number of entries from the input stream, returning the corresponding tree.
*
* @param s the input stream.
* @param n the (positive) number of entries to read.
* @param pred the entry containing the key that precedes the first key in the tree.
* @param succ the entry containing the key that follows the last key in the tree.
*/
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
private Entry KEY_VALUE_GENERIC readTree( final java.io.ObjectInputStream s, final int n, final Entry
KEY_VALUE_GENERIC pred, final Entry KEY_VALUE_GENERIC succ ) throws java.io.IOException,
ClassNotFoundException {
    if ( n == 1 ) {
        final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC( KEY_GENERIC_CAST
s.READ_KEY(), VALUE_GENERIC_CAST s.READ_VALUE() );
        top.pred( pred );
        top.succ( succ );
        top.black( true );

        return top;
    }

    if ( n == 2 ) {
        /* We handle separately this case so that recursion will
        *always* be on nonempty subtrees. */
        final Entry KEY_VALUE_GENERIC top
= new Entry KEY_VALUE_GENERIC( KEY_GENERIC_CAST s.READ_KEY(), VALUE_GENERIC_CAST
s.READ_VALUE() );
        top.black( true );
        top.right( new Entry KEY_VALUE_GENERIC( KEY_GENERIC_CAST s.READ_KEY(),
VALUE_GENERIC_CAST s.READ_VALUE() ) );
        top.right.pred( top );
        top.pred( pred );
        top.right.succ( succ );

        return top;
    }

    // The right subtree is the largest one.
    final int rightN = n / 2, leftN = n - rightN - 1;

```

```

final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC();

top.left( readTree( s, leftN, pred, top ) );

top.key = KEY_GENERIC_CAST s.READ_KEY();
top.value = VALUE_GENERIC_CAST s.READ_VALUE();
top.black( true );

top.right( readTree( s, rightN, top, succ ) );

if ( n + 2 == ( ( n + 2 ) & -( n + 2 ) ) ) top.right.black( false ); // Quick test for determining whether n + 2 is a power
of 2.

return top;
}

private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
/*
The storedComparator is now correctly set, but we must restore
on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if ( count != 0 ) {
tree = readTree( s, count, null, null );
Entry KEY_VALUE_GENERIC e;

e = tree;
while( e.left() != null ) e = e.left();
firstEntry = e;

e = tree;
while( e.right() != null ) e = e.right();
lastEntry = e;
}

if ( ASSERTS ) checkTree( tree, 0, -1 );

}

#ifdef ASSERTS_CODE
private void checkNodePath() {
for( int i = nodePath.length; i-- != 0; ) assert nodePath[ i ] == null : i;
}

private static KEY_VALUE_GENERIC int checkTree( Entry KEY_VALUE_GENERIC e, int d, int D ) {
if ( e == null ) return 0;

```

```

if ( e.black() ) d++;
if ( e.left() != null ) D = checkTree( e.left(), d, D );
if ( e.right() != null ) D = checkTree( e.right(), d, D );
if ( e.left() == null && e.right() == null ) {
    if ( D == -1 ) D = d;
    else if ( D != d ) throw new AssertionError( "Mismatch between number
of black nodes (" + D + " and " + d + ")" );
}
return D;
}
#else
private void checkNodePath() {}
@SuppressWarnings("unused")
private static KEY_VALUE_GENERIC int checkTree( Entry KEY_VALUE_GENERIC e, int d, int D ) { return 0;
}
#endif

```

```

#ifndef TEST

```

```

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

```

```

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #else
        return Integer.toBinaryString( r.nextInt() );
    #endif
}

```

```

private static VALUE_TYPE genValue() {
    #if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
        return (VALUE_TYPE)(r.nextInt());
    #elif #values(primitive)
        return r.NEXT_VALUE();
    #elif !#valueclass(Reference) || #keyclass(Reference)
        return Integer.toBinaryString( r.nextInt() );
    #else
        return new java.io.Serializable() {};
    #endif
}

```

```

private

```

```

static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    int i, j;
    RB_TREE_MAP m;
    java.util.TreeMap t;
    KEY_TYPE k[] = new KEY_TYPE[n];
    KEY_TYPE nk[] = new KEY_TYPE[n];
    VALUE_TYPE v[] = new VALUE_TYPE[n];
    long ms;

    for( i = 0; i < n; i++ ) {
        k[i] = genKey();
        nk[i] = genKey();
        v[i] = genValue();
    }

    double totPut = 0, totYes = 0, totNo = 0, totAddTo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd, ddd;

    if ( comp ) { for( j = 0; j < 20; j++ ) {

        t = new java.util.TreeMap();

        /* We first add all pairs to t. */
        for( i = 0; i < n; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );

        /* Then we remove the first half and put it back. */
        for( i = 0;
            i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );

        ms = System.currentTimeMillis();
        for( i = 0; i < n/2; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );
        d = System.currentTimeMillis() - ms;

        /* Then we remove the other half and put it back again. */
        ms = System.currentTimeMillis();
        for( i = n/2; i < n; i++ ) t.remove( KEY2OBJ( k[i] ) );
        dd = System.currentTimeMillis() - ms ;

        ms = System.currentTimeMillis();
        for( i = n/2; i < n; i++ ) t.put( KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );
    }
}

```

```

d += System.currentTimeMillis() - ms;
if ( j > 2 ) totPut += n/d;
System.out.print("Add: " + format( n/d ) + " K/s " );

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) t.remove( KEY2OBJ( k[i] ) );
dd += System.currentTimeMillis() - ms ;
if ( j > 2 ) totRemYes += n/dd;
System.out.print("RemYes: " + format( n/dd ) + " K/s " );

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) t.put(
KEY2OBJ( k[i] ), VALUE2OBJ( v[i] ) );

#if #values(primitive) && !#valueclass(Boolean)
/* we perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) t.put( KEY2OBJ( k[i] ), (VALUE_TYPE) ((VALUE_CLASS) t.get( KEY2OBJ(k[i])) +
i) );
ddd = System.currentTimeMillis() - ms;
if ( j > 2 ) totAddTo += n/ddd;
System.out.print("AddTo: " + format( n/ddd ) + " K/s " );
#endif

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) t.containsKey( KEY2OBJ( k[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) t.containsKey( KEY2OBJ( nk[i] ) );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: "
+ format( d ) + " K/s " );

/* We iterate on t. */
ms = System.currentTimeMillis();
for( Iterator it = t.entrySet().iterator(); it.hasNext(); it.next() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) + " K/s " );

System.out.println();

```

```

}

System.out.println();
System.out.println( "java.util Put: " + format( totPut/(j-3) ) + " K/s Rem Yes: " + format( totRemYes/(j-3) ) + " K/s
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + "K/s AddTo: " + format( totAddTo/(j-3) ) + "
K/s IterFor: " + format( totIterFor/(j-3) ) + " K/s" );

System.out.println();

t = null;
totPut = totYes = totNo = totIterFor = totIterBack = totRemYes = 0;

}

for( j = 0; j < 20; j++ ) {

    m = new RB_TREE_MAP();

    /* We first add all pairs to m. */
    for( i = 0; i < n; i++ ) m.put( k[i], v[i] );

    /* Then we remove the first half and put it back. */
    for( i = 0; i <
n/2; i++ ) m.remove( k[i] );

    ms = System.currentTimeMillis();
    for( i = 0; i < n/2; i++ ) m.put( k[i], v[i] );
    d = System.currentTimeMillis() - ms;

    /* Then we remove the other half and put it back again. */
    ms = System.currentTimeMillis();
    for( i = n/2; i < n; i++ ) m.remove( k[i] );
    dd = System.currentTimeMillis() - ms ;

    ms = System.currentTimeMillis();
    for( i = n/2; i < n; i++ ) m.put( k[i], v[i] );
    d += System.currentTimeMillis() - ms;
    if ( j > 2 ) totPut += n/d;
    System.out.print("Add: " + format( n/d ) + " K/s " );

    /* Then we remove again the first half. */
    ms = System.currentTimeMillis();
    for( i = 0; i < n/2; i++ ) m.remove( k[i] );
    dd += System.currentTimeMillis() - ms ;
    if ( j > 2 ) totRemYes += n/dd;
    System.out.print("RemYes: " + format( n/dd ) + " K/s " );
}

```

```

/* And then we put it back. */
for( i = 0; i < n/2; i++ ) m.put( k[i], v[i] );

#if #values(primitive) && !#valueclass(Boolean)
/* we
perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for( i = 0; i < n/2; i++ ) m.addTo( k[i], (VALUE_TYPE) i );
ddd = System.currentTimeMillis() - ms;
if ( j > 2 ) totAddTo += n/ddd;
System.out.print("AddTo: " + format( n/ddd ) + " K/s " );
#endif

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.containsKey( k[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totYes += d;
System.out.print("Yes: " + format( d ) + " K/s " );

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for( i = 0; i < n; i++ ) m.containsKey( nk[i] );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totNo += d;
System.out.print("No: " + format( d ) + " K/s " );

/* We iterate on m. */
java.util.ListIterator it = (java.util.ListIterator)m.entrySet().iterator();
ms = System.currentTimeMillis();
for( ;
it.hasNext(); it.next() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterFor += d;
System.out.print("IterFor: " + format( d ) + " K/s " );

/* We iterate back on m. */
ms = System.currentTimeMillis();
for( ; it.hasPrevious(); it.previous() );
d = 1.0 * n / (System.currentTimeMillis() - ms );
if ( j > 2 ) totIterBack += d;
System.out.print("IterBack: " + format( d ) + " K/s " );

System.out.println();
}

System.out.println();

```

```
System.out.println( "fastutil Put: " + format( totPut/(j-3) ) + " K/s RemYes: " + format( totRemYes/(j-3) ) + " K/s  
Yes: " + format( totYes/(j-3) ) + " K/s No: " + format( totNo/(j-3) ) + "K/s AddTo: " + format( totAddTo/(j-3) ) + "  
K/s IterFor: " + format( totIterFor/(j-3) ) + " K/s" );
```

```
System.out.println();
```

```
}
```

```
private static boolean valEquals(Object o1, Object o2) {  
    return o1 == null ? o2 == null : o1.equals(o2);  
}
```

```
private static void fatal( String msg ) {  
    System.out.println(  
msg );  
    System.exit( 1 );  
}
```

```
private static void ensure( boolean cond, String msg ) {  
    if ( cond ) return;  
    fatal( msg );  
}
```

```
private static Object[] k, v, nk;  
private static KEY_TYPE kt[];  
private static KEY_TYPE nkt[];  
private static VALUE_TYPE vt[];  
private static RB_TREE_MAP topMap;
```

```
protected static void testMaps( SORTED_MAP m, SortedMap t, int n, int level ) {  
    long ms;  
    boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;  
    Object rt = null, rm = null;
```

```
    if ( level > 4 ) return;
```

```
    /* Now we check that both maps agree on first/last keys. */
```

```
    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;
```

```
    try {  
        m.firstKey();  
    }  
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }  
    try {  
        t.firstKey();
```

```

    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence at
start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    if ( ! mThrowsNoElement ) ensure( t.firstKey().equals( m.firstKey() ), "Error (" + level + ", " + seed + "): m and t
differ at start on their first key (" + m.firstKey() + ", " + t.firstKey() + ")" );

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        m.lastKey();
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    try {
        t.lastKey();
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence at
start in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

    if ( ! mThrowsNoElement ) ensure( t.lastKey().equals( m.lastKey() ), "Error (" + level + ", " + seed + "): m and t
differ at start on their last key (" + m.lastKey() + ", " + t.lastKey() + ")" );

    /* Now we check that m and t are
equal. */
    if ( !m.equals( t ) || ! t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

    ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
    ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );

    /* Now we check that m actually holds that data. */
    for(Iterator i=t.entrySet().iterator(); i.hasNext(); ) {
        java.util.Map.Entry e = (java.util.Map.Entry)i.next();
        ensure( valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on t)" );
    }

    /* Now we check that m actually holds that data, but iterating on m. */
    for(Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
        Entry e = (Entry)i.next();
        ensure( valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry

```

```

("+e+") after insertion (iterating on m)");
    }

    /* Now we check that m actually holds
the same keys. */
    for(Iterator i=t.keySet().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+" after insertion
(iterating on t)");
        ensure( m.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+", in keySet()) after
insertion (iterating on t)");
    }

    /* Now we check that m actually holds the same keys, but iterating on m. */
    for(Iterator i=m.keySet().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after insertion (iterating on m)"
);
        ensure( t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after insertion
(iterating on m)");
    }

    /* Now we check that m actually hold the same values. */
    for(Iterator i=t.values().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( m.containsValue(o),
"Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on t)");
        ensure( m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on t)");
    }

    /* Now we check that m actually hold the same values, but iterating on m. */
    for(Iterator i=m.values().iterator(); i.hasNext(); ) {
        Object o = i.next();
        ensure( t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
m)");
        ensure( t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on m)");
    }

    /* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

    for(int i=0; i<n; i++) {
        KEY_TYPE T = genKey();

        mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
    m.containsKey(KEY2OBJ(T));
}
catch
( NoSuchElementException e ) { mThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

try {
    t.containsKey(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): containsKey() divergence
in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + " )");
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): containsKey() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + " )");
if ( !mThrowsNoElement && !mThrowsIllegal ) {
    ensure( m.containsKey(KEY2OBJ(T)) == t.containsKey(KEY2OBJ(T)), "Error (" + level + ", " + seed + "):
divergence in keys between t and m (polymorphic method)" );
}

#if #keyclass(Object) && ! ( #values(reference)
)
    if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
        t.get(KEY2OBJ(T)) != null &&
        ! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
    if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
        t.get(KEY2OBJ(T)) != null &&
        ! m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
    {
        System.out.println("Error (" + level + ", " + seed + "): divergence between t and m (polymorphic method)");
        System.exit( 1 );
    }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
    m.get(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { mThrowsNoElement
= true; }
catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

try {
    t.get(KEY2OBJ(T));
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): get() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): get() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T))),
"Error (" + level + ", " + seed + "): divergence between t and m (standard method)" );
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
    KEY_TYPE T = genKey();
    VALUE_TYPE
U = genValue();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        rm = m.put(KEY2OBJ(T), VALUE2OBJ(U));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        rt = t.put(KEY2OBJ(T), VALUE2OBJ(U));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): put() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): put() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
}

```

```

    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals( rm, rt ), "Error (" + level + ", " + seed +
+ "): divergence in put() between t and m (" + rt + ", " + rm + ")" );

    T = genKey();

    mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

    try {
        rm = m.remove(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { mThrowsIllegal = true; }

    try {
        rt = t.remove(KEY2OBJ(T));
    }
    catch ( NoSuchElementException e ) { tThrowsNoElement = true; }
    catch ( IllegalArgumentException e ) { tThrowsIllegal = true; }

    ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
    ensure( mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")" );
    if ( !mThrowsNoElement && !mThrowsIllegal ) ensure( valEquals(
rm, rt ), "Error (" + level + ", " + seed + "): divergence in remove() between t and m (" + rt + ", " + rm + ")" );
    }

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after removal" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after removal" );

    /* Now we check that m actually holds the same data. */

    for(Iterator i=t.entrySet().iterator(); i.hasNext(); ) {
        java.util.Map.Entry e = (java.util.Map.Entry)i.next();
        ensure( valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on t)" );
    }

    /* Now we check that m actually holds that data, but iterating on m. */

    for(Iterator i=m.entrySet().iterator(); i.hasNext(); ) {
        Entry e = (Entry)i.next();
        ensure( valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on m)" );
    }

    /*

```

Now we check that m actually holds the same keys. */

```
for(Iterator i=t.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ") after removal
(iterating on t)");
    ensure( m.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ", in keySet()) after
removal (iterating on t)");
}
```

/* Now we check that m actually holds the same keys, but iterating on m. */

```
for(Iterator i=m.keySet().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after removal (iterating on m)");
    ensure( t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after removal
(iterating on m)");
}
```

/* Now we check that m actually hold the same values. */

```
for(Iterator i=t.values().iterator(); i.hasNext(); ) {
    Object
o = i.next();
    ensure( m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
t)");
    ensure( m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on t)");
}
```

/* Now we check that m actually hold the same values, but iterating on m. */

```
for(Iterator i=m.values().iterator(); i.hasNext(); ) {
    Object o = i.next();
    ensure( t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
m)");
    ensure( t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on m)");
}
```

/* Now we check that both maps agree on first/last keys. */

```
mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;
```

```
try {
    m.firstKey();
}
```

```

catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try
{
    t.firstKey();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );
if ( ! mThrowsNoElement ) ensure( t.firstKey().equals( m.firstKey() ), "Error (" + level + ", " + seed + "): m and t
differ on their first key (" + m.firstKey() + ", " + t.firstKey() + ")" );

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
    m.lastKey();
}
catch ( NoSuchElementException e ) { mThrowsNoElement = true; }
try {
    t.lastKey();
}
catch ( NoSuchElementException e ) { tThrowsNoElement = true; }

ensure( mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")" );

if ( ! mThrowsNoElement ) ensure( t.lastKey().equals(
m.lastKey() ), "Error (" + level + ", " + seed + "): m and t differ on their last key (" + m.lastKey() + ", " + t.lastKey()
+ ")" );

/* Now we check cloning. */

if ( level == 0 ) {
    ensure( m.equals( ((RB_TREE_MAP)m).clone() ), "Error (" + level + ", " + seed + "): m does not equal m.clone()"
);
    ensure( ((RB_TREE_MAP)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m"
);
    m = (RB_TREE_MAP)((RB_TREE_MAP)m).clone();
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_MAP m2 = null;

try {

```

```

java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SORTED_MAP)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception
e) {
    e.printStackTrace();
    System.exit( 1 );
}

#if !#valueclass(Reference)
ensure( m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read" );

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
/* Now we take out of m everything, and check that it is empty. */
#else
m2.clear();
m2.putAll( m );
#endif

for(Iterator i=t.keySet().iterator(); i.hasNext(); ) m2.remove(i.next());

ensure( m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)" );

/* Now we play with iterators. */

{
    java.util.ListIterator i, j;
    Map.Entry E, F;
    Object J;
    i = (java.util.ListIterator)m.entrySet().iterator();
    j = new java.util.LinkedList(
t.entrySet() ).listIterator();

    for( int k = 0; k < 2*n; k++ ) {

```

```

ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()" );
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

if ( r.nextFloat() < .8 && i.hasNext() ) {
    ensure( (E=(Entry)i.next()).getKey().equals( J = (F=(Map.Entry)j.next()).getKey() ), "Error (" + level + ", " + seed +
"): divergence in next()" );

    if ( r.nextFloat() < 0.3 ) {
        i.remove();
        j.remove();
        t.remove( J );
    }
    else if ( r.nextFloat() < 0.3 ) {
        Object U = VALUE2OBJ(genValue());
        E.setValue( U );
        t.put( F.getKey(), U );
    }
}
else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
    ensure( (E=(Entry)i.previous()).getKey().equals( J = (F=(Map.Entry)j.previous()).getKey() ), "Error (" + level + ", "
+ seed + "): divergence in previous()" );

    if ( r.nextFloat()
< 0.3 ) {
        i.remove();
        j.remove();
        t.remove( J );
    }
    else if ( r.nextFloat() < 0.3 ) {
        Object U = VALUE2OBJ(genValue());
        E.setValue( U );
        t.put( F.getKey(), U );
    }
}

ensure( i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()" );

}
}

{
    boolean badPrevious = false;
    Object previous = null;
    it.unimi.dsi.fastutil.BidirectionalIterator i;
    java.util.ListIterator j;
    Object I, J;
    KEY_TYPE from = genKey();

```

```

j = new java.util.LinkedList( t.keySet() ).listIterator();
while( j.hasNext() ) {
    Object k = j.next();
    if ( ((Comparable)k).compareTo( KEY2OBJ( from ) ) > 0 ) {
        badPrevious = true;
        j.previous();
        break;
    }
    previous = k;
}

i = (it.unimi.dsi.fastutil.BidirectionalIterator)((SORTED_SET)m.keySet()).iterator(
from );

for( int k = 0; k < 2*n; k++ ) {
    ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")" );
    ensure( i.hasPrevious() == j.hasPrevious() || badPrevious && ( i.hasPrevious() == ( previous != null ) ), "Error (" +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" + badPrevious );

    if ( r.nextFloat() < .8 && i.hasNext() ) {
        ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")" );
        //System.err.println("Done next " + I + " " + J + " " + badPrevious);

        badPrevious = false;

        if ( r.nextFloat() < 0.5 ) {
            //System.err.println("Removing in next");
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
    else if ( !badPrevious && r.nextFloat() < .2
&& i.hasPrevious() ) {
        ensure( ( I = i.previous() ).equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")" );

        if ( r.nextFloat() < 0.5 ) {
            //System.err.println("Removing in prev");
            i.remove();
            j.remove();
            t.remove( J );
        }
    }
}

```

```

}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a submap. */

if ( ! m.isEmpty() ) {
    java.util.ListIterator i;
    Object start = m.firstKey(), end = m.firstKey();
    for( i = (java.util.ListIterator)m.keySet().iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next() );
    for( ; i.hasNext() && r.nextFloat() < .95; end = i.next() );

    //System.err.println("Checking
subMap from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.subMap( (KEY_CLASS) start, (KEY_CLASS)end ), t.subMap( start, end ), n, level +
1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after subMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subMap" );

    //System.err.println("Checking headMap to " + end + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.headMap( (KEY_CLASS)end ), t.headMap( end ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after headMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after headMap" );

    //System.err.println("Checking tailMap from " + start + " (level=" + (level+1) + ")..." );
    testMaps( (SORTED_MAP)m.tailMap( (KEY_CLASS)start ), t.tailMap( start ), n, level + 1 );

    ensure( m.equals(t), "Error (" + level
+ ", " + seed + "): ! m.equals( t ) after tailMap" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after tailMap" );
}

}

private static void test( int n ) {
    RB_TREE_MAP m = new RB_TREE_MAP();
    SortedMap t = new java.util.TreeMap();
    topMap = m;
    k = new Object[n];
    v = new Object[n];
    nk = new Object[n];
}

```

```

kt = new KEY_TYPE[n];
nkt = new KEY_TYPE[n];
vt = new VALUE_TYPE[n];

for( int i = 0; i < n; i++ ) {
#if #keyclass(Object)
    k[i] = kt[i] = genKey();
    nk[i] = nkt[i] = genKey();
#else
    k[i] = new KEY_CLASS( kt[i] = genKey() );
    nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
#if #values(reference)
    v[i] = vt[i] = genValue();
#else
    v[i] = new VALUE_CLASS( vt[i] = genValue() );
#endif
}

/* We add pairs to t. */
for( int i = 0; i < n; i++ ) t.put( k[i], v[i] );

/* We add to m the same data */
m.putAll(t);

testMaps( m, t, n, 0 );

System.out.println("Test OK");
return;
}

public static
void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );

    try {
        if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0]) );
        else if ( "test".equals( args[0] ) ) test(n);
    } catch( Throwable e ) {
        e.printStackTrace( System.err );
        System.err.println( "seed: " + seed );
    }
}

#endif

```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/RBTreeMap.drv
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
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```

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*
```

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```

```
*/
```

```
package PACKAGE;
```

```
/** An abstract class providing basic methods for functions implementing a type-specific interface.
```

```
*
```

```
* <P>Optional operations just throw an { @link
```

```
* UnsupportedOperationException}. Generic versions of accessors delegate to
```

```
* the corresponding type-specific counterparts following the interface  
rules
```

```
* (they take care of returning <code>null</code> on a missing key).
```

```
*
```

```
* <P>This class handles directly a default return
```

```
* value (including { @linkplain #defaultReturnValue() methods to access
```

```
* it}). Instances of classes inheriting from this class have just to return
```

```
* <code>defRetValue</code> to denote lack of a key in type-specific methods. The value
```

```
* is serialized.
```

```
*
```

```
* <P>Implementing subclasses have just to provide type-specific <code>get()</code>,
```

```
* type-specific <code>containsKey()</code>, and <code>size()</code> methods.
```

```
*
```

```
*/
```

```
public abstract class ABSTRACT_FUNCTION_KEY_VALUE_GENERIC implements FUNCTION  
KEY_VALUE_GENERIC, java.io.Serializable {
```

```

private static final long serialVersionUID = -4940583368468432370L;

protected ABSTRACT_FUNCTION() {}

/**
 * The default return value for <code>get()</code>, <code>put()</code> and
 * <code>remove()</code>.
 */

protected VALUE_GENERIC_TYPE defRetVal;

public void defaultReturnValue( final VALUE_GENERIC_TYPE
rv ) {
    defRetVal = rv;
}

public VALUE_GENERIC_TYPE defaultReturnValue() {
    return defRetVal;
}

public VALUE_GENERIC_TYPE put( KEY_GENERIC_TYPE key, VALUE_GENERIC_TYPE value ) {
    throw new UnsupportedOperationException();
}

public VALUE_GENERIC_TYPE REMOVE_VALUE( KEY_TYPE key ) {
    throw new UnsupportedOperationException();
}

public void clear() {
    throw new UnsupportedOperationException();
}

#if #keys(primitive)
public boolean containsKey( final Object ok ) {
    return containsKey( KEY_OBJ2TYPE( ok ) );
}
#endif

#if #keys(primitive) || #values(primitive)

#if #values(primitive)
/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
 *
 * <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
 * it probes

```

```

the map <em>twice</em>. Implementors of subclasses should override it with a more efficient method.
*
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#else
/** Delegates to the corresponding type-specific method, taking care of returning <code>>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map <em>twice</em>. Implementors of subclasses should override it with a more efficient method.
*/
#endif
public VALUE_GENERIC_CLASS get( final Object ok ) {
    final KEY_TYPE k = KEY_OBJ2TYPE( ok );
    return containsKey( k ) ? VALUE2OBJ( GET_VALUE( k ) ) : null;
}

#if #keys(primitive) || #values(primitive)
/** Delegates to the corresponding type-specific method, taking care of returning <code>>null</code>
on a missing key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map <em>twice</em>. Implementors of subclasses should override it with a more efficient method.
*
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#else
/** Delegates to the corresponding type-specific method, taking care of returning <code>>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map <em>twice</em>. Implementors of subclasses should override it with a more efficient method.
*/
#endif
public VALUE_GENERIC_CLASS put( final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov )
{
    final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE( ok );
    final boolean containsKey = containsKey( k );
    final VALUE_GENERIC_TYPE v = put( k, VALUE_CLASS2TYPE( ov ) );
    return containsKey ? VALUE2OBJ(
v ) : null;
}

#if #values(primitive)
/** Delegates to the corresponding type-specific method, taking care of returning <code>>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,

```

```

* it probes the map <em>twice</em>. Implementors of subclasses should override it with a more efficient method.
*
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#else
/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map <em>twice</em>. Implementors of subclasses should override it with a more efficient method.
*/
#endif
public
VALUE_GENERIC_CLASS remove( final Object ok ) {
    final KEY_TYPE k = KEY_OBJ2TYPE( ok );
    final boolean containsKey = containsKey( k );
    final VALUE_GENERIC_TYPE v = REMOVE_VALUE( k );
    return containsKey ? VALUE2OBJ( v ) : null;
}
#endif
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractFunction.drv

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```

/*
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*/

```

```
package PACKAGE;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_ITERATOR;
```

```

import VALUE_PACKAGE.VALUE_ITERATOR;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
import
java.util.Map;

#if #keys(reference)
import java.util.Comparator;
#endif

/** An abstract class providing basic methods for sorted maps implementing a type-specific interface. */

public abstract class ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC {

private static final long serialVersionUID = -1773560792952436569L;

protected ABSTRACT_SORTED_MAP() {}

#if #keys(primitive)
/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC headMap( final KEY_GENERIC_CLASS to ) {
return headMap( KEY_CLASS2TYPE( to ) );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC tailMap( final KEY_GENERIC_CLASS from ) {
return tailMap( KEY_CLASS2TYPE( from ) );
}

/**
Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC subMap( final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to ) {
return subMap( KEY_CLASS2TYPE( from ), KEY_CLASS2TYPE( to ) );
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS firstKey() {
return KEY2OBJ( FIRST_KEY() );
}

```

```

}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS lastKey() {
    return KEY2OBJ( LAST_KEY() );
}
#endif

/** Returns a type-specific-sorted-set view of the keys of this map.
 *
 * <P>The view is backed by the sorted set returned by { @link #entrySet()}. Note that
 * <em>no attempt is made at caching the result of this method</em>,
 * as this would
 * require adding some attributes that lightweight implementations would
 * not need. Subclasses may easily override this policy by calling
 * this method and caching the result, but implementors are encouraged to
 * write more efficient ad-hoc implementations.
 *
 * @return a sorted set view of the keys of this map; it may be safely cast to a type-specific interface.
 */

public SORTED_SET KEY_GENERIC keySet() {
    return new KeySet();
}

/** A wrapper exhibiting the keys of a map. */

protected class KeySet extends ABSTRACT_SORTED_SET KEY_GENERIC {
    public boolean contains( final KEY_TYPE k ) { return containsKey( k ); }
    public int size() { return ABSTRACT_SORTED_MAP.this.size(); }
    public void clear() { ABSTRACT_SORTED_MAP.this.clear(); }

    public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return
    ABSTRACT_SORTED_MAP.this.comparator(); }

    public KEY_GENERIC_TYPE FIRST() { return FIRST_KEY(); }
    public KEY_GENERIC_TYPE LAST() { return
    LAST_KEY(); }

    public SORTED_SET KEY_GENERIC headSet( final KEY_GENERIC_TYPE to ) { return headMap( to
    ).keySet(); }
    public SORTED_SET KEY_GENERIC tailSet( final KEY_GENERIC_TYPE from ) { return tailMap( from
    ).keySet(); }
    public SORTED_SET KEY_GENERIC subSet( final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE

```

```

to ) { return subMap( from, to ).keySet(); }

    public KEY_BIDI_ITERATOR KEY_GENERIC iterator( final KEY_GENERIC_TYPE from ) { return new
    KeySetIterator KEY_VALUE_GENERIC( entrySet().iterator( new BasicEntry KEY_VALUE_GENERIC( from,
    VALUE_NULL ) ) ); }
    public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new KeySetIterator KEY_VALUE_GENERIC(
    entrySet().iterator() ); }

}
/** A wrapper exhibiting a map iterator as an iterator on keys.
 *
 * <P>To provide an iterator on keys, just create an instance of this
 * class using the corresponding iterator on entries.
 */

protected static class KeySetIterator KEY_VALUE_GENERIC extends KEY_ABSTRACT_BIDI_ITERATOR
KEY_GENERIC
{
    protected final ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>>
i;

    public KeySetIterator( ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>> i ) {
        this.i = i;
    }

    public KEY_GENERIC_TYPE NEXT_KEY() { return KEY_CLASS2TYPE( i.next().getKey() ); };
    public KEY_GENERIC_TYPE PREV_KEY() { return KEY_CLASS2TYPE( i.previous().getKey() ); };

    public boolean hasNext() { return i.hasNext(); }
    public boolean hasPrevious() { return i.hasPrevious(); }
}

/** Returns a type-specific collection view of the values contained in this map.
 *
 * <P>The view is backed by the sorted set returned by { @link #entrySet()}. Note that
 * <em>no attempt is made at caching the result of this method</em>, as this would
 * require adding some attributes that lightweight implementations would
 * not need. Subclasses may easily override this policy by calling
 * this method and caching the result, but implementors are encouraged
to
 * write more efficient ad-hoc implementations.
 *
 * @return a type-specific collection view of the values contained in this map.
 */

```

```

public VALUE_COLLECTION VALUE_GENERIC values() {
    return new ValuesCollection();
}

/** A wrapper exhibiting the values of a map. */
protected class ValuesCollection extends VALUE_ABSTRACT_COLLECTION VALUE_GENERIC {
    public VALUE_ITERATOR VALUE_GENERIC iterator() { return new ValuesIterator KEY_VALUE_GENERIC(
entrySet().iterator() ); }
    public boolean contains( final VALUE_TYPE k ) { return containsValue( k ); }
    public int size() { return ABSTRACT_SORTED_MAP.this.size(); }
    public void clear() { ABSTRACT_SORTED_MAP.this.clear(); }

}

/** A wrapper exhibiting a map iterator as an iterator on values.
 *
 * <P>To provide an iterator on values, just create an instance of this
 * class using the corresponding iterator on entries.
 */

protected static class ValuesIterator KEY_VALUE_GENERIC extends VALUE_ABSTRACT_ITERATOR
VALUE_GENERIC
{
    protected final ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>>
i;

    public ValuesIterator( ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>> i ) {
        this.i = i;
    }

    public VALUE_GENERIC_TYPE NEXT_VALUE() { return VALUE_CLASS2TYPE( i.next().getValue() ); };
    public boolean hasNext() { return i.hasNext(); }
}

@SuppressWarnings({ "unchecked", "rawtypes" })
public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() {
    return (ObjectSortedSet)ENTRYSET();
}
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractSortedMap.drv
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/*

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```

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* limitations under the License.
*/

```

```

/** Loads elements from a given fast buffered reader, storing them in a given array fragment.
*

```

```

* @param reader a buffered reader.
* @param array an array which will be filled with data from <code>reader</code>.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length
the number of elements of <code>array</code> to be filled.
* @return the number of elements actually read from <code>reader</code> (it might be less than
<code>length</code> if <code>reader</code> ends).
*/

```

```

public static int LOAD_KEYS( final BufferedReader reader, final KEY_TYPE[] array, final int offset, final int
length ) throws IOException {
    PACKAGE.ARRAYS.ensureOffsetLength( array, offset, length );
    int i = 0;
    String s;
    try {
        for( i = 0; i < length; i++ )
            if ( ( s = reader.readLine() ) != null ) array[ i + offset ] = KEY_CLASS.PARSE_KEY( s.trim() );
            else break;
    }
    catch( EOFException itsOk ) {}
    return i;
}

```

```

/** Loads elements from a given buffered reader, storing them in a given array.
*

```

```

* @param reader a buffered reader.
* @param array an array which will be filled with data from <code>reader</code>.
* @return the number of elements actually read from <code>reader</code> (it might be less than the array length if
<code>reader</code> ends).
*/
public static

```

```

int LOAD_KEYS( final BufferedReader reader, final KEY_TYPE[] array ) throws IOException {
return LOAD_KEYS( reader, array, 0, array.length );
}

/** Loads elements from a file given by a {@link File} object, storing them in a given array fragment.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static int LOAD_KEYS( final File file, final KEY_TYPE[] array, final int offset, final int length ) throws
IOException {
final BufferedReader reader = new BufferedReader( new FileReader( file ) );
final int result = LOAD_KEYS( reader, array, offset, length );
reader.close();

return result;
}

/** Loads elements from a file given
by a filename, storing them in a given array fragment.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static int LOAD_KEYS( final CharSequence filename, final KEY_TYPE[] array, final int offset, final int
length ) throws IOException {
return LOAD_KEYS( new File( filename.toString() ), array, offset, length );
}

/** Loads elements from a file given by a {@link File} object, storing them in a given array.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length
if the file is too short).
 */
public static int LOAD_KEYS( final File file, final KEY_TYPE[] array ) throws IOException {
return LOAD_KEYS( file, array, 0, array.length );
}

```

```

/** Loads elements from a file given by a filename, storing them in a given array.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 is too short).
 */
public static int LOAD_KEYS( final CharSequence filename, final KEY_TYPE[] array ) throws IOException {
    return LOAD_KEYS( filename, array, 0, array.length );
}

/** Stores an array fragment to a given print stream.
 *
 * @param array an array whose elements will be written to <code>stream</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param stream a print
 stream.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length, final PrintStream
stream ) {
    PACKAGE.ARRAYS.ensureOffsetLength( array, offset, length );
    for( int i = 0; i < length; i++ ) stream.println( array[ offset + i ] );
}

/** Stores an array to a given print stream.
 *
 * @param array an array whose elements will be written to <code>stream</code>.
 * @param stream a print stream.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final PrintStream stream ) {
    STORE_KEYS( array, 0, array.length, stream );
}

/** Stores an array fragment to a file given by a { @link File } object.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length,
final File file ) throws IOException {
    final PrintStream stream = new PrintStream( new FastBufferedOutputStream( new FileOutputStream( file ) ) );
    STORE_KEYS( array, offset, length, stream );
    stream.close();
}

```

```

/** Stores an array fragment to a file given by a pathname.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final int offset, final int length, final CharSequence
filename ) throws IOException {
    STORE_KEYS( array, offset, length, new File( filename.toString() ) );
}

/** Stores an array to a file given by a { @link File } object.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_TYPE array[],
final File file ) throws IOException {
    STORE_KEYS( array, 0, array.length, file );
}

/** Stores an array to a file given by a pathname.
 *
 * @param array an array whose elements will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_TYPE array[], final CharSequence filename ) throws IOException {
    STORE_KEYS( array, 0, array.length, filename );
}

/** Stores the element returned by an iterator to a given print stream.
 *
 * @param i an iterator whose output will be written to <code>stream</code>.
 * @param stream a print stream.
 */
public static void STORE_KEYS( final KEY_ITERATOR i, final PrintStream stream ) {
    while( i.hasNext() ) stream.println( i.NEXT_KEY() );
}

/** Stores the element returned by an iterator to a file given by a { @link File } object.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS( final KEY_ITERATOR
i, final File file ) throws IOException {
    final PrintStream stream = new PrintStream( new FastBufferedOutputStream( new FileOutputStream( file ) ) );

```

```

STORE_KEYS( i, stream );
stream.close();
}

/** Stores the element returned by an iterator to a file given by a pathname.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS( final KEY_ITERATOR i, final CharSequence filename ) throws IOException {
    STORE_KEYS( i, new File( filename.toString() ) );
}

/** Loads elements from a given fast buffered reader, storing them in a given big-array fragment.
 *
 * @param reader a buffered reader.
 * @param array a big array which will be filled with data from <code>reader</code>.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from <code>reader</code>
 * (it might be less than <code>length</code> if <code>reader</code> ends).
 */
public static long LOAD_KEYS( final BufferedReader reader, final KEY_TYPE[][] array, final long offset, final
long length ) throws IOException {
    PACKAGE.BIG_ARRAYS.ensureOffsetLength( array, offset, length );
    long c = 0;
    String s;
    try {
        for( int i = segment( offset ); i < segment( offset + length + SEGMENT_MASK ); i++ ) {
            final KEY_TYPE[] t = array[ i ];
            final int l = (int)Math.min( t.length, offset + length - start( i ) );
            for( int d = (int)Math.max( 0, offset - start( i ) ); d < l; d++ ) {
                if ( ( s = reader.readLine() ) != null ) t[ d ] = KEY_CLASS.PARSE_KEY( s.trim() );
                else return c;
                c++;
            }
        }
    }
    catch( EOFException itsOk ) {}
    return c;
}

/** Loads elements from a given buffered reader, storing them in a given array.
 *
 * @param reader a buffered reader.
 * @param array a big array which will be filled with data from <code>reader</code>.
 * @return the number of elements

```

```

    actually read from <code>reader</code> (it might be less than the array length if <code>reader</code> ends).
    */
public static long LOAD_KEYS( final BufferedReader reader, final KEY_TYPE[][] array ) throws IOException {
    return LOAD_KEYS( reader, array, 0, PACKAGE.BIG_ARRAYS.length( array ) );
}

/** Loads elements from a file given by a {@link File} object, storing them in a given big-array fragment.
 *
 * @param file a file.
 * @param array a big array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static long LOAD_KEYS( final File file, final KEY_TYPE[][] array, final long offset, final long length )
throws IOException {
    final BufferedReader reader = new BufferedReader(
    new FileReader( file ) );
    final long result = LOAD_KEYS( reader, array, offset, length );
    reader.close();

    return result;
}

/** Loads elements from a file given by a filename, storing them in a given big-array fragment.
 *
 * @param filename a filename.
 * @param array a big array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static long LOAD_KEYS( final CharSequence filename, final KEY_TYPE[][] array, final long offset, final
long length ) throws IOException {
    return LOAD_KEYS( new File( filename.toString() ), array, offset, length );
}

/** Loads elements from a file given by a {@link File} object, storing them in a given array.
 *
 * @param file a file.
 * @param array
array a big array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
 */
public static long LOAD_KEYS( final File file, final KEY_TYPE[][] array ) throws IOException {

```

```

return LOAD_KEYS( file, array, 0, PACKAGE.BIG_ARRAYS.length( array ) );
}

/** Loads elements from a file given by a filename, storing them in a given array.
 *
 * @param filename a filename.
 * @param array a big array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
 */
public static long LOAD_KEYS( final CharSequence filename, final KEY_TYPE[][] array ) throws IOException {
return LOAD_KEYS( filename, array, 0, PACKAGE.BIG_ARRAYS.length( array ) );
}

/** Stores a big-array fragment to a given print stream.
 *
 * @param array a big array
whose elements will be written to <code>stream</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param stream a print stream.
 */
public static void STORE_KEYS( final KEY_TYPE array[][] , final long offset, final long length, final PrintStream
stream ) {
PACKAGE.BIG_ARRAYS.ensureOffsetLength( array, offset, length );

for( int i = segment( offset ); i < segment( offset + length + SEGMENT_MASK ); i++ ) {
final KEY_TYPE[] t = array[ i ];
final int l = (int)Math.min( t.length, offset + length - start( i ) );
for( int d = (int)Math.max( 0, offset - start( i ) ); d < l; d++ ) stream.println( t[ d ] );
}
}

/** Stores a big array to a given print stream.
 *
 * @param array a big array whose elements will be written to <code>stream</code>.
 * @param stream a print stream.
 */
public static void STORE_KEYS( final KEY_TYPE array[][] , final PrintStream stream )
{
STORE_KEYS( array, 0, PACKAGE.BIG_ARRAYS.length( array ), stream );
}

/** Stores a big-array fragment to a file given by a { @link File } object.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of elements of <code>array</code> to be written.

```

```

* @param file a file.
*/
public static void STORE_KEYS( final KEY_TYPE array[[]], final long offset, final long length, final File file )
throws IOException {
    final PrintStream stream = new PrintStream( new FastBufferedOutputStream( new FileOutputStream( file ) ) );
    STORE_KEYS( array, offset, length, stream );
    stream.close();
}

/** Stores a big-array fragment to a file given by a pathname.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of
elements of <code>array</code> to be written.
* @param filename a filename.
*/
public static void STORE_KEYS( final KEY_TYPE array[[]], final long offset, final long length, final
CharSequence filename ) throws IOException {
    STORE_KEYS( array, offset, length, new File( filename.toString() ) );
}

/** Stores a big array to a file given by a { @link File } object.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param file a file.
*/
public static void STORE_KEYS( final KEY_TYPE array[[]], final File file ) throws IOException {
    STORE_KEYS( array, 0, PACKAGE.BIG_ARRAYS.length( array ), file );
}

/** Stores a big array to a file given by a pathname.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param filename a filename.
*/
public static void STORE_KEYS( final KEY_TYPE array[[]], final CharSequence filename ) throws IOException {
    STORE_KEYS( array, 0, PACKAGE.BIG_ARRAYS.length( array ), filename
);
}

/** A wrapper that exhibits the content of a reader as a type-specific iterator. */

final private static class KEY_READER_WRAPPER extends KEY_ABSTRACT_ITERATOR {
    final private BufferedReader reader;
    private boolean toAdvance = true;
    private String s;

```

```

private KEY_TYPE next;

public KEY_READER_WRAPPER( final BufferedReader reader ) {
    this.reader = reader;
}

public boolean hasNext() {
    if ( ! toAdvance ) return s != null;

    toAdvance = false;

    try {
        s = reader.readLine();
    }
    catch( EOFException itsOk ) {}
    catch( IOException rethrow ) { throw new RuntimeException( rethrow ); }

    if ( s == null ) return false;

    next = KEY_CLASS.PARSE_KEY( s.trim() );
    return true;
}

public KEY_TYPE NEXT_KEY() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    toAdvance = true;
    return next;
}
}

/** Wraps the given buffered reader into an iterator.
 *
 * @param reader a buffered reader.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR( final BufferedReader reader
) {
    return new KEY_READER_WRAPPER( reader );
}

/** Wraps a file given by a { @link File } object into an iterator.
 *
 * @param file a file.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR( final File file ) throws IOException {
    return new KEY_READER_WRAPPER( new BufferedReader( new FileReader( file ) ) );
}
}

```

```

/** Wraps a file given by a pathname into an iterator.
 *
 * @param filename a filename.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR( final CharSequence filename ) throws IOException {
    return AS_KEY_ITERATOR( new File( filename.toString() ) );
}

```

```

/** Wraps a file given by a {@link File} object into an iterable object.
 *
 * @param file a file.
 */
public static KEY_ITERABLE AS_KEY_ITERABLE( final File file ) {
    return new KEY_ITERABLE() {
        public KEY_ITERATOR iterator() {
            try {
                return AS_KEY_ITERATOR( file );
            }
            catch( IOException e ) {
                throw new RuntimeException( e );
            }
        }
    };
}

```

```

/** Wraps a file given by a pathname into an iterable object.
 *
 * @param
 * filename a filename.
 */
public static KEY_ITERABLE AS_KEY_ITERABLE( final CharSequence filename ) {
    return new KEY_ITERABLE() {
        public KEY_ITERATOR iterator() {
            try {
                return AS_KEY_ITERATOR( filename );
            }
            catch( IOException e ) {
                throw new RuntimeException( e );
            }
        }
    };
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/TextIOFragment.drv

No license file was found, but licenses were detected in source scan.

7.0.10

- The infinite-loop bug was affecting trim(int) besides trim(). Thanks to Igor Kabiljo for reporting this bug.
- With the help of Erich Schubert, all methods with a type-specific, more efficient counterpart have been deprecated.

7.0.9

- A subtle infinite-loop bug in hash-based structures (happening with load factor 1 and tiny structures) has been fixed. Thanks to Tuomas Välimäki and Jarkko Mönkkönen for reporting this bug.
- Now tree-based map have an addTo() method analogous to that of hash-based maps. Thanks to Almog Gavra for implementing the method.

7.0.8

- Non-indirect priority queues are now serializable.
- Fixed implementation of structures based on a custom hash: keys strategy-equal to zero would not be managed correctly. Thanks to Shawn Cao for reporting this bug.
- Natural/opposite/abstract comparators are now serializable.

7.0.7

- Now we check whether ranges of parallel sorting algorithms are too small *before* creating the thread pool.
- Merged Erich Schubert's fix for Object{AVL,RB}TreeSet.get().

7.0.6

- Faster priority queues: better variable caching, deleted a spurious check, tests for parameters turned into assertions.
- New collection-based constructors for heap-based priority queues.
- Reviewed ObjectArrays.newArray() so that there is a fast track for reallocation of arrays of type Object[].

7.0.4

- Fixed old-standing bug: iterators in linked maps would

return bogus data on `entrySet().next()/entrySet().previous()`
when no element is available instead of throwing an exception.

7.0.3

- Fixed wrong generation of custom-hash classes with primitive keys. Thanks to Michael Henke for reporting this bug.

7.0.2

- Now we shutdown() correctly ForkJoinPool's.
- Constants limiting parallelism and recursion have been tuned.
- New implementations of indirect [parallel] quicksort (in ascending order only).
- New stabilization method for post-processing of non-stable indirect sorts.

7.0.1

- Now generated sources are formatted using the Eclipse command-line facility.

7.0.0

- Now we need Java 7.
- New parallel versions of radix sort and quicksort. The sequential implementations have been further improved.
- Restored the previous constants in mixing functions.

6.6.4

- Hopefully better mixing functions created by a genetic algorithm.
- Fixed a bug in floating-point hash-based containers: `-0.0` and `+0.0` were both converted to `+0.0`. Thanks to Dawid Weiss for reporting this bug.

6.6.3

- Fixed subtle wrap-around bug in removal from iterator. Thanks to Eugene Yakavets for reporting this bug.

6.6.2

- We now reduce backing arrays of hash-based classes when they are filled below one fourth of the load factor. The reduction is not performed when deleting from an iterator, as it would make iteration impossible.
- Significant simplification of `Iterator.remove()`'s implementations for hash-based data structures.

6.6.1

- Fixed missed implementation: `setValue()` was not implemented for fast iterators in hash-based maps.

6.6.0

- Major (transparent) rewrite of all hash-based classes inspired by the Goldman-Sachs collections. We no longer allocate a byte array to store the status of each slot: a null (or zero) key denotes an empty slot. The null key is handled separately. The reduction in memory accesses makes the cost of the additional logic negligible, and brings in significant performance improvements. The code is actually simplified, as all loops become a search for a nonzero element.
- Partial (one-step) unrolling of all lookup loops, following the strategy used in Koloboke.
- Fixed an old bug: `entrySet().remove(Entry)` would remove entries checking the value of the key, only.
- Fixed a bug in the iterator over hash big sets.
- OSGI metadata, thanks to Benson Margulies.

6.5.17

- Now `TextIO` methods trim strings before parsing numbers. This avoids obnoxious exceptions when numbers are followed by whitespace.

6.5.16

- Improved speed of `FastMultiByteArrayInputStream`, and removed support for `mark()/reset()`.
- Deprecated array `fill()` methods in favour of `java.util`'s.

6.5.15

- De-deprecated quicksort methods for primitive-type arrays. It turned out that Java's `Arrays.sort()` switches to mergesort on large, semi-sorted arrays. Moreover, in Java 7 the support array is allocated of the same size of the argument array, not of the sorted fragment. This performance bug was entirely killing the performance of `Transform.transposeOffline()` and other methods. Until that bug is fixed, we will have to rely on our quicksort method (which is a pity, because Java's sort is, for the rest, so beautifully engineered).

6.5.14

- Equality in type-specific hash-based data structures with float or double keys is now checked by converting to int/long bits using the conversion method of the appropriate class. Previously, using NaNs as keys would have led to misbehaviour. Thanks to Davide Savazzi for reporting this bug.

6.5.13

- Fixed a very unlikely corner case that might have led to reduction in size of an array instead of a growth. Thanks to Ernst Reissner for reporting this bug.

- `InspectableFileCachedInputStream` no longer performs a call to `RandomAccessFile.position()` when the end of file has been reached and the file is entirely held in memory.

- All front-coded lists now implement `java.util.RandomAccess`.

6.5.12

- Removed some useless wrapper creation in a few methods of tree-based map classes.

- Fixed pathological `maxFill` computation for very small-sized big open hash sets.

6.5.11

- A very old and subtle performance bug in hash-based data structures has been fixed. Backing arrays were allocated using the number of expected elements divided by the load factor. However, since the test for rehashing was fired by equality with the table size multiplied by the load factor, if the expected

number of elements multiplied by the load factor was an integer a useless rehash would happen for the very last added element. The only effect was an useless increase in object creation.

6.5.10

- Now iterators in object set constructors are of type `Iterator`, and not anymore `ObjectIterator`. The kind of allowed iterators has been rationalised and made uniform through all classes implementing `Set`.

6.5.9

- New methods to get a type-specific `Iterable` from binary or text files.

6.5.8

- Fixed stupid bug in creation of array-based FIFO queues.

6.5.7

- Fixed a very subtle bug in hash-based data structures: `addAll()` to a newly created structure could require a very long time due to correlation between the positions in structures with different table sizes.

6.5.6

- `equals()` method between arrays have been deprecated in favour of the `java.util.Arrays` version, which is intrinsified in recent JVMs.
- `InspectableFileCachedInputStream.reopen()` makes it possible to read again from the start an instance on which `close()` was invoked.

6.5.5

- The abstract implementation of `equals()` between (big) lists now uses type-specific access methods (as the `compareTo()` method was already doing) to avoid massive boxing/unboxing. Thanks to Adrien Grand for suggesting this improvement.
- FIFO array-based queues are now serializable.

6.5.4

- Further fixes related to NaNs in sorting.

- Fixed very old bug in `FastByteArrayOutputStream.write(int)`.

Thanks to Massimo Santini for reporting this bug.

- We now use `Arrays.MAX_ARRAY_SIZE`, which is equal to `Integer.MAX_VALUE` minus 8, to bound all array allocations. Previously, it might happen that `grow()` and other array-related functions could try to allocate an array of size `Integer.MAX_VALUE`, which is technically correct from the JLS, but will not work on most JVMs. The maximum length we use now is the same value as that used by `java.util.ArrayList`. Thanks to William Harvey for suggesting this change.

6.5.3

- Corrected erroneous introduction of `compare()` methods on integral classes (they appeared in Java 7).

6.5.2

- A few changes were necessary to make `fastutil` behave as Java on NaNs when sorting. `Double.compareTo()` and `Float.compareTo()` treat `Double.NaN` as greater than `Double.POSITIVE_INFINITY`, and `fastutil` was not doing it. As part of the change, now all comparisons between primitive types are performed using the `compare()` method of the wrapper class (microbenchmarks confirmed that there is no speed penalty for that, probably due to inlining or even intrinsification). Thanks to Adam Klein for reporting this bug.

- All `quickSort()` implementations that do not involve a comparator are now deprecated, as there are equivalent/better versions in `java.util.Arrays`.

6.5.0 -> 6.5.1

- Now `FastBuffered{Input/Output}Stream` has a constructor with an explicitly given buffer.

- Abandoned golden-ratio based expansion of arrays and lists in favour of a (more standard) doubling approach.

- Array-based FIFO queues now reduce their capacity automatically by halving when the size becomes one fourth of the length.

- The `add()` method for open hash maps has been deprecated and replaced by `addTo()`, as the name choice proved to be a recipe for disaster.

- New `InspectableFileCachedInputStream` for caching easily large byte

streams partially on file and partially in memory.

- The `front()` method for semi-indirect heaps took no comparator, but was used in queues in which you could support a comparator. There is now a further version accepting a comparator.

- Serial Version UIDs are now private.

6.4.6 -> 6.5.0

- Fixed type of array hash strategies.

- Fixed use of `equals()` instead of `compareTo()` in `SemiIndirectHeaps.front()`. Thanks to Matthew Hatem for reporting this bug.

- Now we generate custom hash maps for primitive types, too (as we were already doing for sets).

6.4.5 -> 6.4.6

- In array-based priority queues `changed()` would not invalidate the cached index of the smallest element.

6.4.4 -> 6.4.5

- In some very rare circumstances, enumeration of hash sets or maps combined with massive element removal (using the iterator `remove()` method) could have led to inconsistent enumeration (duplicates and missing elements). Thanks to Hamish Morgan for reporting this bug.

6.4.3 -> 6.4.4

- Array-based maps were not implementing correctly `entrySet().contains()`, and as a consequence `equals()` between such maps was broken. Thanks to Benson Margulies for reporting this bug.

6.4.2 -> 6.4.3

- Now array-based priority queue cache their first element. Moreover, they implement the correct type-specific interface.

6.4.1 -> 6.4.2

- Now we have indirect lexicographical radix sort on pairs of arrays, mainly used to compute quickly Kendall's tau.

- New reverse method for arrays (useful for radix descending sorts).
- Radix sort (one or two arrays) for big arrays.
- Now radix sort uses correctly (minimally) sized support arrays when sorting subarrays.

6.4 -> 6.4.1

- Now we have a separate directory, settable in the makefile, to generate sources. This makes Maven integration easier.
- The store methods in TextIO for big arrays were broken.
- Now big-array lists implement the Stack interface.
- Fixed subtle bug in rehash() methods of big hash sets.

6.3 -> 6.4

- **WARNING:** Indirect queues must obviously have a way to determine whether an index is in the queue. It was an oversight in the interface design that a contains() method was not present. We took the risk of adding it now. At the same time, we modified remove() so that now returns a boolean specifying whether the index to be removed was actually in the queue, as this is more in line with the Java Collections Framework.
- Removed unused double-priority queue related classes.
- Now array-based sets and maps have a constructor based on java.util.Collection and java.util.Map (as for the other kind of sets and maps).
-
- New doubly linked implementation for linked hash maps and sets. It uses twice the space for pointers, but mixes well with linear probing, so we have again constant-time true deletions. Moreover, iterators can be started from any key in constant time (albeit the first access to the index of the list iterator will require a linear scan, unless the iterator started from the first or the last key). Additional methods such as getAndMoveToFirst() make the creation of LRU caches very easy. Thanks to Brien Colwell for donating the code.
- Now object-based array FIFO queues provide deque methods. Moreover, they clean up the backing array after returning an object or when performing a clear().

- New get() method in set implementations makes it possible to recover the actual object into the collection that is equal to the query key.

- A number of bugs were found and fixed by Christian Falz (thanks!). In all binary search code the "to" parameter was *inclusive*, but the

documentation said *exclusive*, with obvious problems. Hash map iterators could return under some very subtle and almost irreproducible circumstances a previously deleted slot. Deleted hash map entries would return spurious null values.

6.2.2 -> 6.3

- We now have radix sort. It's much faster than quicksort, but it can only sort keys in their natural order. There are multiple-array and indirect (and possibly stable) versions available.

- There are now custom hash sets also for type-specific keys. This makes it possible to use hash sets to index data indirectly (e.g., using integer or long just as indices).

- Shuffling static methods for all kinds of (big) list and arrays.

6.2.1 -> 6.2.2

- A new add() method makes the usage of maps as counters easier and faster.

6.2.0 -> 6.2.1

- A very stupid bug was causing twice the rehashing that was necessary. Now insertions in hash-based classes are significantly faster.

6.1.0 -> 6.2.0

- A better structure of the scan loop for hash tables borrowed from HPPC (<http://labs.carrotsearch.com/hppc.html>) gives some speed improvement to hash-based classes.

6.0.0 -> 6.1.0

- Hash-based classes have been rewritten using linear probing and a good hash (MurmurHash3). The old classes can be still generated using the target oldsources.

- Bizarre queues (double- and sesqui-indirect) have been removed from the standard jar, but they can be still generated using the

target oldsources.

5.1.5 -> 6.0.0

- WARNING: the jar file is now fastutil.jar (not fastutil5.jar), again.
- WARNING: now fastutil requires Java 6+.
- fastutil is now released under the Apache License 2.0.
- New framework for big arrays, represented as arrays-of-arrays. BigArrays and the type-specific counterparts provide static methods of all kinds.
- New Size64 interface for classes implementing big collections.
- New framework for big lists--lists with longs as indices. The only present implementation uses big arrays, but, for instance, Sux4J's succinct lists will be retrofitted to LongBigList (presently they implement LongBigList from dsuutils, which will be deprecated).
- List.iterator() now returns a ListIterator. There is no real reason not to do this, and the API change is handled from an implementation viewpoint in AbstractList, so nobody should really notice.
- New Collections.asCollection(Iterable) method to expose iterables as collections (missing methods are computed using the iterator). This was also the occasion to streamline type-specific abstract collections, which now inherit from java.util.AbstractCollection, so we support contains, clear, etc. methods as long as there is an iterator.
- Fixed bugged array-based constructors of ArrayMap and ArraySet.
- Fixed bugged put/remove methods in abstract functions. Thanks to Katja Filippova for reporting this bug.
- New front-coded lists use big arrays, so they can store much more (in fact, unlimited) data. Unfortunately, they are no longer serialisation-compatible with previous versions.
- New MeasurableStream interface that is implemented by MeasurableInputStream and by a new, analogous MeasurableOutputStream.
- Better FastBufferedOutputStream and FastByteArrayOutputStream that are measurable and positionable.

- Now all clone() methods override covariantly the default return type (Object).

5.1.4 -> 5.1.5

- HashSet was implementing isEmpty() with inverted logic (thanks to Marko Srdanovic for reporting this bug).
- New constructor for FastMultiByteArrayInputStream: it takes a MeasurableInputStream and uses length() to determine the number of bytes to load into memory.

5.1.3 -> 5.1.4

- The implementation of RepositionableStream in FastByteArrayOutputStream was fraught with a horrendous bug (thanks to Claudio Corsi for reporting), in spite of extensive unit tests.

5.1.2 -> 5.1.3

- A bug existing since the first release was preventing tables larger than 2^{30} bits to work (the computation of the next bucket to look at would cause an integer overflow).
- FastByteArrayOutputStream now implements RepositionableStream.
- Type-specific versions of Iterable.
- Some methods (e.g., iterator() and values()) are now explicitly re-strengthened wherever necessary to avoid complaints about ambiguous method invocations by some compilers.
- The introduction of functions added several bugs to the empty/singleton map classes. Inheriting from the respective function counterparts left several methods underspecified (equals(), etc.). This has been (hopefully) fixed.

5.1.1 -> 5.1.2

- FastBufferedInputStream now supports length() by FileChannel-fetching on FileInputStream instances (it already used to support position() by the same mechanism).

5.1.0 -> 5.1.1

- Byte-array MG4J I/O classes have been moved here.

5.0.9 -> 5.1.0

- Fixed documentation for custom/noncustom maps (it was exchanged).
- New type-specific `entrySet()` methods that avoid complicated casting to get a type-specific entryset. Moreover, now `entrySet()` can return an object implementing `Fast(Sorted)EntrySet` to indicate that a `fastIterator()` method is available. Fast iterators can return always the same `Entry` object, suitably mutated. We thank Daniel Ramage for suggesting this feature.
- Several hundreds of new classes generated by the new `Function` interface, which represent mappings for which the entry set is not enumerable (e.g., hashes). Functions have their usual share of satellite objects (wrappers, etc.). There are no implementations--the main purpose of the new interfaces is to make `Sux4J` (<http://sux.dsi.unimi.it/>) more object-oriented.

5.0.8 -> 5.0.9

- Slightly reduced overhead for bound checks in heap-based queues.
- `BinIO` was loading byte arrays one byte at a time. Now some conditionally compiled code uses bulk-read methods instead. Moreover, horrible kluges to work around Java bug #6478546 have been included.

5.0.7 -> 5.0.8

- Faster array maps and sets: `System.arraycopy()` is very slow on small arrays (due to inherent costs of calling native code) and reflection-based array creation is a disaster. Now we use object arrays and loops.
- New `clone()` methods for array-based structures and custom serialisation.
- `FastBuffered*Stream` has been simplified and streamlined. No more block alignment.

5.0.6 -> 5.0.7

- Better algorithm for `front()` in heaps.
- New comprehensive collection of array-based maps and sets. The motivation behind such structures is the need for quick, low-footprint data structures for *very* small sets (say, less than 10 elements). For instance, in `MG4J` we were using sparse reference-based hash tables, but it turned out that `System.identityHashCode()` is *deadly* slow and scanning linearly an array searching for the desired element is

significantly faster.

5.0.5 -> 5.0.6

- Due to erratic and unpredictable behaviour of `InputStream.skip()`, which does not correspond to its specification and Sun refuses to fix (see bug 6222822; don't be fooled by the "closed, fixed" label), `FastBufferedInputStream` now peeks at the underlying stream and if it is `System.in` it uses repeated reads. Moreover, it will use alternatively reads and skips to guarantee that the number of skipped bytes will be smaller than requested only if end of file has been reached.
- The insertion and key retrieval methods of hash-based structures are now protected and final.
- New `front()` method for indirect queues. It retrieves quickly the indices associated to elements equal to the top.
- First JUnit tests.

5.0.4 -> 5.0.5

- Fixed possible overflow in `FastBufferedInputStream.available()`.
- Indirect heaps have faster checks for elements belonging or not to the queue. In particular, we just rely on array access for detecting indices out of bounds. Profiling with `LaMa4J` showed that in some circumstances checking explicitly the indices were within bounds was taking more time than the actual heap inner workings.
- Fixed obnoxious bug dating to the first `fastutil` implementation. The macro `KEY_EQUALS_HASH(x,h,y)`, which checks for equality between `x` and `y` given that the hash of `x` is `h`, was evaluating `hashCode()` on `y` without guarantee that `y` was non-null. As a result, adding a null to a mapped followed by the insertion of an element with hash code 0 would have thrown a `NullPointerException`. The bug went unobserved for years because no one use nulls as keys, and was actually detected by a bug in `BUBiNG`'s code (which was in turn mistakenly inserting nulls in a set).

5.0.3 -> 5.0.4

- Fixed missing declaration of generic type for `HASH_STRATEGY`.
- A new abstract class, `MeasurableInputStream`, is used for streams whose length and current position are always known. This actually was needed for `BUBiNG` development.

- New readLine() family of method for reading "lines" directly from a FastBufferedInputStream.
- In FastBufferedInputStream, reset() has been deprecated in favour of flush().
- Array-based lists of objects now reallocate the backing array using reflection *only* if they were created by wrapping. This won't change the previous behaviour, but at the price of a boolean per list we have unbelievably faster array reallocation.
- New explicit fast load factors in Hash.

5.0.2 -> 5.0.3

- Bizarrely, java.util.List re-specifies iterator(), even if it extends Collection. As a result, we need to re-strengthen it in type-specific lists.
- Fixed new horrible bug introduced by adding Booleans to BinIO and TextIO. Problem is, I didn't know #assert is cumulative.

5.0.1 -> 5.0.2

- Fixed bug in sorted maps key sets and values that would cause a stack overflow when calling size() and a few other methods.
- Fixed lack of booleans in BinIO and TextIO.
- BinIO now checks for too large files.

5.0 -> 5.0.1

- In BinIO, it was assumed that .SIZE would give the size of primitive types in *bytes*. Bad mistake.

4.4.3 ->

5.0

- Java 5 only!
- Support for generics. This led to a number of backward-incompatible changes:
 - * toArray(Object[]) does not accept any longer null as an argument;
 - * singletons for empty collections (sets, lists, ecc.) are type-specific;
 - * iterators on sorted collections are bidirectional *by specification*;
 - * the new, covariantly stronger methods defined in all interfaces (e.g., iterator() returning a type-specific iterator) are now the default,

and in the abstract classes the old methods (e.g., `objectIterator()`) now just delegate to the standard method, which is the contrary of what was happening before: you'll have to turn all methods such as `objectIterator()` in `iterator()`, etc.

* all deprecated methods have been dropped.

- Array growth functions now will return the correct empty array for object arrays (it used to return `ObjectArrays.EMPTY_ARRAY`).

- Strategies are generic and no longer required to accept `REMOVED`.

- Stale references could hang around in the `nodePath` array for Red-Black trees and `map`; this has been fixed.

- The difference in semantics with the standard `toArray(Object[])` specification, which has always been in place, is now exhaustively explained.

- Major code cleanup (mostly code deletion) due to passing `fastutil` into Eclipse to check unused code, etc.

4.4.2 -> 4.4.3

- Important bug fix in `FastBufferedInputStream`.

4.4.1 -> 4.4.2

- New `reset()` method to invalidate the buffer of a `FastBufferedInputStream`, making it possible to read safely files written by other processes (given, of course, that you are synchronising the accesses).

4.4.0 -> 4.4.1

- New parallel-array constructor for all maps. Very useful for static final map initialisation.

- Following considerations in Jakarta Commons I/O, the standard buffer size has been lowered to 8Ki.

- Some arguments were declared as `DataInputStream` instead of `DataInput`.

- New methods for reading/writing objects from/to streams.

4.3.2

-> 4.4

- New static containers for reading and writing easily text and binary data streams. They load/save arrays, iterators etc. to buffered readers or streams.
- Moved here fast input/output buffered classes from MG4J. This makes fastutil self-contained.
- The trivial implementation of the type-specific iterator was missing from AbstractList.drv (surprisingly, not from the subclass implementation!).
- The sublist implementation in AbstractList.drv is now protected and static. The attributes are protected, too.
- Now we compare booleans (false<true). As a result, also lists of booleans do get lexicographical comparability.
- add(k) in AbstractList.drv now calls add(size(), k).
- Fixed error messages for out-of-bound indices in lists.

4.3.1 -> 4.3.2

- Fixed small innocuous bug: a code fragment related to non-linked hash table was generated for linked hash tables, too, do to a case type in a preprocessor directive. The code fragment, however, had no effect.
- Fixed memory leak in OpenHashMap: the remove() method was not clearing the key (whereas OpenHashSet was).

4.3 -> 4.3.1

- New fully indirect heap-based double priority queues.
- Fixed docs for queues: in 4.3, we were claiming that greater elements are dequeued first, while the opposite happens.

4.2 -> 4.3

- New full-fledged set of unmodifiable structures *and* iterators.
- Removed about a dozen spurious final method modifiers.
- Made rehash() protected, so that everybody can play with different rehashing strategies.
- trim() in array lists wasn't doing the right thing, because trim(int)

wasn't doing it in the first place. Now if `n` is smaller than the size of the list, we trim at the list size (previously we were doing nothing).

- Analogously, `trim()` in hash-table-based structures was fixed so that trimming a table below its size will result in rehashing to the minimum possible size.

4.1 -> 4.2

- Improved array methods: now all methods on objects (e.g., `grow()`) return an array of the same type of the array that was passed to them, similarly to `toArray()` in collections.

- Fixed missing macro substitution for empty iterator methods. In any case, they were already deprecated.

4.0 -> 4.1

- New classes for custom hashing methods (mainly thought for arrays). Correspondingly, methods for arrays have been implemented in the static containers.

- `BasicEntry` now throws an `UnsupportedOperationException` on calls to `setValue()`. If you ever used that method, you got wierd results, as it does not update the underlying map. The method is now implemented correctly in open hash maps, in which previously did not correctly update the underlying map.

- Reimplemented copy of an entire array using `clone()`.

- Fixed a bug in `clear()` for indirect heaps (the inversion array was not being cleared).

- Indirect priority queue interfaces now feature an optional `allChanged()` method that can be used to force a complete heap rebuild. It is implemented by all current array-based and head-based concrete classes.

3.1 -> 4.0

- **IMPORTANT:** The optimized methods that a type-specific must provide now include an `addElements()` method that quickly adds an array of elements. As usual, the method is fully implemented by the type-specific abstract lists.

- **IMPORTANT:** The abstract generic version of `get()`, `put()` and `remove()` for maps with non-object keys or values now always return null to denote a missing key. They used to return an object-wrapped default return value.

- Completely new and comprehensive implementation of priority queues, both direct and indirect. Implementations are by heaps and by flat arrays. There are also static containers with all relevant heap methods, for people wanting to do their own thing.
- New static containers for comparators.
- All singletons, empty sets and synchronized wrappers are public so you can inherit from them.
- Abstract maps now provide keySet() and values() based on entrySet().
- New abstract classes for sorted sets and maps with delegators to type-specific methods.
- New public methods in Arrays and in type-specific Arrays classes for checking ranges.
- New static methods for type-specific arrays that allow to grow, enlarge and trim them with ease.
- Clarified abstract implementation of default return values, and implemented clarified specification. Just a couple of method in hash maps were not already compliant.
- The pour() method now returns a list. The previous version was returning a linked hash set, which was rather nonsensical anyway, since an iterator build on the returned set could have been different from the original iterator. You can always pour an iterator into a set by providing the set explicitly.
- An exception-throwing implementation of some methods in AbstractSet was missing. Same for AbstractCollection, AbstractMap and AbstractList.
- New basic inner entry class for abstract maps, which makes it easier to write entrySet() methods for classes that do not have their own entries.
- Added missing get(Object) method in AbstractMap (just delegates to the type-specific version).
- For lazy people, now containsKey() and containsValue() in AbstractMap are defined by looking into keySet() and values().
- Fixed a few methods of EMPTY_LIST which were throwing exception semantically (see the introduction).

- The interval iterators are now list iterators, except for longs.
- Fixed a bug in size() for array lists (reducing the size of an array would lead to an exception).
- Fixed double bug in hash tables: first of all, on very small sizes adding growthFactor would have left the size unchanged, giving rise to infinite loops. (Thanks to Heikki Uusitalo for reporting this bug.) Second, growthFactor was not being used *at all* by hash maps.
- Fixed entries emitted by singleton maps. Now they are type-specific.
- Fixed a number of minor glitches in gencsource.sh, and added some comments.
- HashCommon.removed has been renamed HashCommon.REMOVED.
- Boolean objects are now generated using valueOf() instead of the constructor.
- New type-specific wrappers for list iterators.

3.0 -> 3.1

- IMPORTANT: it.unimi.dsi.fastutil.Iterators methods have been spread in type-specific static containers.
- New Stack interface, implemented by type-specific lists.
- New static container classes Collections, Sets, and Lists. Presently they just provide empty containers.
- New type-specific static contains (e.g., IntSets) providing singletons and synchronized wrappers.
- Entry sets now have entries that are equal() to entries coming from corresponding maps in java.util.
- Spelling everywhere changed to Pure American. "synchronized" in code and "synchronise" in text side-by-side were looking really wierd...

3.0 -> 3.0.1

- New unwrap() methods for type-specific collections.
- Fixed old-as-world-bug, apparently wide but that evidently no one ever noticed: AbstractMap was not serialisable, and, as a result, the default return value was not serialised (I find sincerely counterintuitive that

making a class serialisable doesn't do the same for its supertypes). It wasn't ever even *documented* as preserved, so probably everyone thought this was my idea, too. Too bad this breaks once more serialisation compatibility. Since I had to break some serialisation anyway, I decided to eliminate the residual serialisation of p in hash table classes, too (which breaks serialisation for all hash-based classes).

2.60 -> 3.0

- IMPORTANT: All classes have been repackaged following the type of elements/keys. Sources will have to be retouched (just to change the import clause) and recompiled.
- IMPORTANT: Because of an unavoidable name clash in the new type-specific list interface, the method remove(int) of IntCollection has been renamed rem(int). The only really unpleasant effect is that you must use rem(int) on variables of type IntCollection that are not of type IntSet (as IntSet reinstates remove(int) in its right place)--for instance, IntList.
- Brand-new implementation of type-specific lists, with all the features you'd expect and more.
- Insertions for readObject() in hash tables are now handled in a special way (20% faster).
- Implemented linear-time tree reconstruction for readObject() (in practice, more than twice faster).
- Fixed a problem with serialisation of hash tables: the table would have been reloaded with the same p, even if it was preposterous. We still save p, however, to avoid breaking serialisation compatibility.
- Fixed missing implementation of type-specific sets, which should have extended type-specific collections, but they weren't.
- The default return value is now protected.
- New family of pour() methods that pour an iterator into a set.
- New programmable growth factor for hash-table-based classes.
- Eliminated a few useless method calls in tree map.
- Wide range of complex assertions, which are compiled in or out using the "private static final boolean" idiom.

- For references we now use `System.identityHashCode()`; this shouldn't change much, but it seems definitely more sensible.

- Fixed major bug in `subSet()/subMap()`: creating a `subMap` of a `tailMap` (or `headMap`) a right extreme (left, resp.) equal to 0 would have caused the creation of a `tailMap` (or `headMap`, resp.), discarding the extreme. Very, very unlikely, but it happened in a test.

- Fixed small bug in standard `remove()` method of submaps, which would have returned a default return value wrapped in a suitable object instead of null on non-existing keys.

2.52 -> 2.60

- IMPORTANT: Major overhaul of iterators. Now iterators must be skippable, so previous implementation of type-specific iterator interfaces will not work. However, new abstract classes allow to build iterator with ease by providing for free the skipping logic, and many useful static methods in `Iterators` allow to generate type-specific iterators wrapping standard iterators, arrays, etc.

- Better strategy for `clear()` on hash tables: we don't do anything only if all entries are free (which means that an empty table with deleted entry will be cleared).

2.51 -> 2.52

- IMPORTANT: The package name has changed to `it.unimi.dsi.fastutil` to be uniform with `JPackage` conventions. However, this means that you must manually erase the old one and update your sources.

- `clear()` doesn't do anything on empty hash tables.

2.50 -> 2.51

- New `trim(int)` method to reduce a hash table size avoiding to make it too small.

- `serialVersionUID` is now fixed, to avoid future incompatibilities.

2.11 -> 2.50

- IMPORTANT: The `Collection` interface now prescribes an iterator method with a type-specific name (e.g., `intIterator()`) that returns directly a type-specific iterator.

- New Reference maps and sets that allow to store more quickly canonised objects.

- New linked maps mimicking java.util's, but with a boatload of additional features.
- Small bug fix: the get(Object) method would return null instead of the default return value for maps with object keys.
- Major bug fix: iterating backwards on submaps was leading to unpredictable results.
- Major bug fix: cloning maps would have caused inconsistent behaviour.
- Major code redistribution: now whenever possible wrappers belong to abstract superclasses.

2.1 -> 2.11

- Now we cache the hash of an object before entering the hash table loop.

2.0 -> 2.1

- A simple optimisation in hash-table inner loops has given quite a performance boost under certain conditions (we do not compute the secondary hashing if it is not necessary). Inspired by Gnu Trove.
- The trim() method would have in fact trimmed nothing, just rehashed the table.
- The computed maxFill value was slightly too small.
- Also tree sets now have constructors from arrays.
- More internal methods have been made final.

1.3 -> 2.0

- ALL MAPS AND SETS HAVE NEW NAMES DEPENDING ON THE IMPLEMENTATION.
- Introducing new high-performance, low memory-footprint implementation of SortedMap and SortedSet.
- Two tree implementations are available: RB trees and AVL trees. Both implementations are threaded. See the README.
- Fixed a bug in hashCode() and contains() for HashMap.drv (it was considering keys only!).
- Fixed a bug in contains() for entrySet() in all maps (it was using VALUE_EQUAL to test equality for values given as objects).
- I realised that a default return value can be useful also for maps and sets returning objects, so now you have it. It is even independent for submaps and

subsets.

- Classes are no longer final. The performance gain is around 1%, and the decrease in usefulness is orders of magnitudes greater.
- We now check equality using first hashCode() and then equals().
- The tests for speed now warm up the trees by doing repeated insertions and deletions, so that the benefits of a better balancing criterion are more evident.
- The regression tests are much more stringent.
- Fixed hashCode() for hash maps (wasn't conforming to the Map interface specification).
- Implemented linear cloning for tree classes.

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/CHANGES

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/*

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*/

package PACKAGE;

import java.util.Iterator;

import java.util.NoSuchElementException;

/** A class providing static methods and objects that do useful things with type-specific iterators.

*

* @see Iterator

*/

public class BIG_LIST_ITERATORS {

private BIG_LIST_ITERATORS() {}

```

/** A class returning no elements
and a type-specific big list iterator interface.
*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific iterator.
*/

public static class EmptyBigListIterator KEY_GENERIC extends KEY_ABSTRACT_BIG_LIST_ITERATOR
KEY_GENERIC implements java.io.Serializable, Cloneable {

    private static final long serialVersionUID = -7046029254386353129L;

    protected EmptyBigListIterator() {}

    public boolean hasNext() { return false; }
    public boolean hasPrevious() { return false; }
    public KEY_GENERIC_TYPE NEXT_KEY() { throw new NoSuchElementException(); }
    public KEY_GENERIC_TYPE PREV_KEY() { throw new NoSuchElementException(); }
    public long nextIndex() { return 0; }
    public long previousIndex() { return -1; }
    public long skip( long n ) { return 0; };
    public long back( long n ) { return 0; };
    public Object clone() { return EMPTY_BIG_LIST_ITERATOR; }
    private Object readResolve() { return EMPTY_BIG_LIST_ITERATOR; }
}

/** An empty
iterator (immutable). It is serializable and cloneable.
*
* <P>The class of this objects represent an abstract empty iterator
* that can iterate as a type-specific (list) iterator.
*/

SUPPRESS_WARNINGS_KEY_RAWTYPES
public final static EmptyBigListIterator EMPTY_BIG_LIST_ITERATOR = new EmptyBigListIterator();

/** An iterator returning a single element. */

private static class SingletonBigListIterator KEY_GENERIC extends KEY_ABSTRACT_BIG_LIST_ITERATOR
KEY_GENERIC {
    private final KEY_GENERIC_TYPE element;
    private int curr;

    public SingletonBigListIterator( final KEY_GENERIC_TYPE element ) {
        this.element = element;
    }
}

```

```

public boolean hasNext() { return curr == 0; }
public boolean hasPrevious() { return curr == 1; }

public KEY_GENERIC_TYPE NEXT_KEY() {
    if ( ! hasNext() ) throw new NoSuchElementException();
    curr = 1;
    return element;
}

public KEY_GENERIC_TYPE PREV_KEY() {
    if ( ! hasPrevious() ) throw new NoSuchElementException();
    curr = 0;
    return
element;
}

public long nextIndex() {
    return curr;
}

public long previousIndex() {
    return curr - 1;
}
}

/** Returns an iterator that iterates just over the given element.
 *
 * @param element the only element to be returned by a type-specific list iterator.
 * @return an iterator that iterates just over <code>element</code>.
 */
public static KEY_GENERIC KEY_BIG_LIST_ITERATOR KEY_GENERIC singleton( final
KEY_GENERIC_TYPE element ) {
    return new SingletonBigListIterator KEY_GENERIC( element );
}

/** An unmodifiable wrapper class for big list iterators. */

public static class UnmodifiableBigListIterator KEY_GENERIC extends
KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC {
    final protected KEY_BIG_LIST_ITERATOR KEY_GENERIC i;

    public UnmodifiableBigListIterator( final KEY_BIG_LIST_ITERATOR KEY_GENERIC i ) {
        this.i = i;
    }

    public boolean hasNext() { return i.hasNext(); }

```

```

public boolean hasPrevious() { return i.hasPrevious(); }
public
KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
public long nextIndex() { return i.nextIndex(); }
public long previousIndex() { return i.previousIndex(); }
#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS next() { return i.next(); }
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS previous() { return i.previous(); }
#endif
}

/** Returns an unmodifiable list iterator backed by the specified list iterator.
 *
 * @param i the list iterator to be wrapped in an unmodifiable list iterator.
 * @return an unmodifiable view of the specified list iterator.
 */
public static KEY_GENERIC KEY_BIG_LIST_ITERATOR KEY_GENERIC unmodifiable( final
KEY_BIG_LIST_ITERATOR KEY_GENERIC i ) { return new UnmodifiableBigListIterator KEY_GENERIC(
i ); }

/** A class exposing a list iterator as a big-list iterator.. */

public static class BigListIteratorListIterator KEY_GENERIC extends KEY_ABSTRACT_BIG_LIST_ITERATOR
KEY_GENERIC {
protected final KEY_LIST_ITERATOR KEY_GENERIC i;

protected BigListIteratorListIterator( final KEY_LIST_ITERATOR KEY_GENERIC i ) {
this.i = i;
}

private int intDisplacement( long n ) {
if ( n < Integer.MIN_VALUE || n > Integer.MAX_VALUE ) throw new IndexOutOfBoundsException( "This big
iterator is restricted to 32-bit displacements" );
return (int)n;
}

public void set( KEY_GENERIC_TYPE ok ) { i.set( ok ); }
public void add( KEY_GENERIC_TYPE ok ) { i.add( ok ); }
public int back( int n ) { return i.back( n ); }
public long back( long n ) { return i.back( intDisplacement( n ) ); }

```

```

public void remove() { i.remove(); }
public int skip( int n ) { return i.skip( n ); }
public long skip( long n ) { return i.skip( intDisplacement( n ) ); }
public boolean hasNext()
{ return i.hasNext(); }
public boolean hasPrevious() { return i.hasPrevious(); }
public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
public long nextIndex() { return i.nextIndex(); }
public long previousIndex() { return i.previousIndex(); }
}

/** Returns a big-list iterator backed by the specified list iterator.
 *
 * @param i the list iterator to adapted to the big-list-iterator interface.
 * @return a big-list iterator backed by the specified list iterator.
 */
public static KEY_GENERIC KEY_BIG_LIST_ITERATOR KEY_GENERIC asBigListIterator( final
KEY_LIST_ITERATOR KEY_GENERIC i ) { return new BigListIteratorListIterator KEY_GENERIC( i ); }
}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigListIterators.drv

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```

/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package PACKAGE;
```

```

import java.util.Arrays;
import java.util.Collection;
import java.util.Iterator;
import java.util.RandomAccess;

```

```
import java.util.NoSuchElementException;
```

```
#if #keys(primitive)
```

```
/** A type-specific array-based list; provides some additional methods that use polymorphism to avoid (un)boxing.
```

```
*
```

```
*
```

```
<P>This class implements a lightweight, fast, open, optimized,
```

```
* reuse-oriented version of array-based lists. Instances of this class
```

```
* represent a list with an array that is enlarged as needed when new entries
```

```
* are created (by doubling its current length), but is
```

```
* never made smaller (even on a {@link #clear()}). A family of
```

```
* {@linkplain #trim() trimming methods} lets you control the size of the
```

```
* backing array; this is particularly useful if you reuse instances of this class.
```

```
* Range checks are equivalent to those of {@link java.util}'s classes, but
```

```
* they are delayed as much as possible. The backing array is exposed by the
```

```
* {@link #elements()} method.
```

```
*
```

```
* <p>This class implements the bulk methods removeElements(),
```

```
* addElements() and getElements() using
```

```
* high-performance system calls (e.g., {@link
```

```
* System#arraycopy(Object,int,Object,int,int) System.arraycopy() instead of
```

```
* expensive loops.
```

```
*
```

```
* @see java.util.ArrayList
```

```
*/
```

```
public class ARRAY_LIST KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
```

```
RandomAccess, Cloneable, java.io.Serializable {
```

```
private static final long serialVersionUID = -7046029254386353130L;
```

```
#else
```

```
/** A type-specific array-based list; provides some additional methods that use polymorphism to avoid (un)boxing.
```

```
*
```

```
* <P>This class implements a lightweight, fast, open, optimized,
```

```
* reuse-oriented version of array-based lists. Instances of this class
```

```
* represent a list with an array that is enlarged as needed when new entries
```

```
* are created (by doubling the current length), but is
```

```
* never made smaller (even on a {@link #clear()}). A family of
```

```
* {@linkplain #trim() trimming methods} lets you control the size of the
```

```
* backing array; this is particularly useful if you reuse instances of this class.
```

```
* Range checks are equivalent to those of {@link java.util}'s classes, but
```

```
* they are delayed as much as possible.
```

```
*
```

```
* <p>The backing array is exposed by the
```

```

    { @link #elements() } method. If an instance
    * of this class was created { @linkplain #wrap(Object[],int) by wrapping},
    * backing-array reallocations will be performed using reflection, so that
    * { @link #elements() } can return an array of the same type of the original array: the comments
    * about efficiency made in { @link it.unimi.dsi.fastutil.objects.ObjectArrays } apply here.
    * Moreover, you must take into consideration that assignment to an array
    * not of type { @code Object[] } is slower due to type checking.
    *
    * <p>This class implements the bulk methods <code>removeElements()</code>,
    * <code>addElements()</code> and <code>getElements()</code> using
    * high-performance system calls (e.g., { @link
    * System#arraycopy(Object,int,Object,int,int) System.arraycopy() } instead of
    * expensive loops.
    *
    * @see java.util.ArrayList
    */
}

public class ARRAY_LIST KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
RandomAccess, Cloneable, java.io.Serializable {
    private static final long
    serialVersionUID = -7046029254386353131L;

#endif

    /** The initial default capacity of an array list. */
    public final static int DEFAULT_INITIAL_CAPACITY = 16;

#if ! #keys(primitive)
    /** Whether the backing array was passed to <code>wrap()</code>. In
    * this case, we must reallocate with the same type of array. */
    protected final boolean wrapped;
#endif

    /** The backing array. */
    protected transient KEY_GENERIC_TYPE a[];

    /** The current actual size of the list (never greater than the backing-array length). */
    protected int size;

    private static final boolean ASSERTS = ASSERTS_VALUE;

    /** Creates a new array list using a given array.
    *
    * <P>This constructor is only meant to be used by the wrapping methods.
    *
    * @param a the array that will be used to back this array list.
    */
}

```

```

@SuppressWarnings("unused")
protected ARRAY_LIST( final KEY_GENERIC_TYPE a[], boolean dummy ) {
    this.a = a;
    #if ! #keys(primitive)
        this.wrapped = true;
    #endif
}

/** Creates a new
array list with given capacity.
*
* @param capacity the initial capacity of the array list (may be 0).
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_LIST( final int capacity ) {
    if ( capacity < 0 ) throw new IllegalArgumentException( "Initial capacity (" + capacity + ") is negative" );

    a = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ capacity ];
    #if ! #keys(primitive)
        wrapped = false;
    #endif
}

/** Creates a new array list with { @link #DEFAULT_INITIAL_CAPACITY } capacity.
*/

public ARRAY_LIST() {
    this( DEFAULT_INITIAL_CAPACITY );
}

/** Creates a new array list and fills it with a given collection.
*
* @param c a collection that will be used to fill the array list.
*/

public ARRAY_LIST( final Collection<? extends KEY_GENERIC_CLASS> c ) {
    this( c.size() );
    #if #keys(primitive)
        size = ITERATORS.unwrap( ITERATORS.AS_KEY_ITERATOR( c.iterator() ), a );
    #else
        size = ITERATORS.unwrap( c.iterator(), a );
    #endif
}

/** Creates a new array list and fills it

```

with a given type-specific collection.

*

* @param c a type-specific collection that will be used to fill the array list.

*/

```
public ARRAY_LIST( final COLLECTION KEY_EXTENDS_GENERIC c ) {
    this( c.size() );
    size = ITERATORS.unwrap( c.iterator(), a );
}
```

/** Creates a new array list and fills it with a given type-specific list.

*

* @param l a type-specific list that will be used to fill the array list.

*/

```
public ARRAY_LIST( final LIST KEY_EXTENDS_GENERIC l ) {
    this( l.size() );
    l.getElements( 0, a, 0, size = l.size() );
}
```

/** Creates a new array list and fills it with the elements of a given array.

*

* @param a an array whose elements will be used to fill the array list.

*/

```
public ARRAY_LIST( final KEY_GENERIC_TYPE a[] ) {
    this( a, 0, a.length );
}
```

/** Creates a new array list and fills it with the elements of a given array.

*

* @param a an array whose elements will be used to fill the array list.

* @param offset the first element to

use.

* @param length the number of elements to use.

*/

```
public ARRAY_LIST( final KEY_GENERIC_TYPE a[], final int offset, final int length ) {
    this( length );
    System.arraycopy( a, offset, this.a, 0, length );
    size = length;
}
```

/** Creates a new array list and fills it with the elements returned by an iterator..

*

* @param i an iterator whose returned elements will fill the array list.

*/

```

public ARRAY_LIST( final Iterator<? extends KEY_GENERIC_CLASS> i ) {
    this();
    while( i.hasNext() ) this.add( i.next() );
}

/** Creates a new array list and fills it with the elements returned by a type-specific iterator..
 *
 * @param i a type-specific iterator whose returned elements will fill the array list.
 */

public ARRAY_LIST( final KEY_ITERATOR KEY_EXTENDS_GENERIC i ) {
    this();
    while( i.hasNext() ) this.add( i.NEXT_KEY() );
}

#if #keys(primitive)
/** Returns the backing array of this list.
 *
 * @return the backing array.
 */

public KEY_GENERIC_TYPE[]
elements() {
    return a;
}
#else
/** Returns the backing array of this list.
 *
 * <P>If this array list was created by wrapping a given array, it is guaranteed
 * that the type of the returned array will be the same. Otherwise, the returned
 * array will be of type { @link Object Object[]} (in spite of the declared return type).
 *
 * <P><strong>Warning</strong>: This behaviour may cause (unfathomable)
 * run-time errors if a method expects an array
 * actually of type <code>K[]</code>, but this methods returns an array
 * of type { @link Object Object[]}.
 *
 * @return the backing array.
 */

public K[] elements() {
    return a;
}
#endif

/** Wraps a given array into an array list of given size.
 *
 * <P>Note it is guaranteed

```

```

* that the type of the array returned by { @link #elements() } will be the same
* (see the comments in the class documentation).
*
* @param a an array to wrap.
* @param length the length of the resulting array list.
* @return a new
array list of the given size, wrapping the given array.
*/

public static KEY_GENERIC ARRAY_LIST KEY_GENERIC wrap( final KEY_GENERIC_TYPE a[], final int
length ) {
    if ( length > a.length ) throw new IllegalArgumentException( "The specified length (" + length + ") is greater than
the array size (" + a.length + ")" );
    final ARRAY_LIST KEY_GENERIC l = new ARRAY_LIST KEY_GENERIC( a, false );
    l.size = length;
    return l;
}

/** Wraps a given array into an array list.
*
* <P>Note it is guaranteed
* that the type of the array returned by { @link #elements() } will be the same
* (see the comments in the class documentation).
*
* @param a an array to wrap.
* @return a new array list wrapping the given array.
*/

public static KEY_GENERIC ARRAY_LIST KEY_GENERIC wrap( final KEY_GENERIC_TYPE a[] ) {
    return wrap( a, a.length );
}

/** Ensures that this array list can contain the given number of entries without resizing.
*
* @param capacity the new minimum capacity
for this array list.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void ensureCapacity( final int capacity ) {
    #if #keys(primitive)
        a = ARRAYS.ensureCapacity( a, capacity, size );
    #else
        if ( wrapped ) a = ARRAYS.ensureCapacity( a, capacity, size );
        else {
            if ( capacity > a.length ) {
                final Object t[] = new Object[ capacity ];
                System.arraycopy( a, 0, t, 0, size );
            }
        }
    }
}

```

```

    a = (KEY_GENERIC_TYPE[])t;
    }
    }
#endif
    if ( ASSERTS ) assert size <= a.length;
    }

/** Grows this array list, ensuring that it can contain the given number of entries without resizing,
 * and in case enlarging it at least by a factor of two.
 *
 * @param capacity the new minimum capacity for this array list.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
private void grow( final int capacity ) {
#if #keys(primitive)
    a = ARRAYS.grow( a, capacity, size );
#else
    if ( wrapped ) a = ARRAYS.grow( a, capacity, size );
    else {
        if ( capacity > a.length ) {
            final int newLength = (int)Math.max( Math.min(
2L * a.length, it.unimi.dsi.fastutil.Arrays.MAX_ARRAY_SIZE ), capacity );
            final Object t[] = new Object[ newLength ];
            System.arraycopy( a, 0, t, 0, size );
            a = (KEY_GENERIC_TYPE[])t;
        }
    }
#endif
    if ( ASSERTS ) assert size <= a.length;
    }

public void add( final int index, final KEY_GENERIC_TYPE k ) {
    ensureIndex( index );
    grow( size + 1 );
    if ( index != size ) System.arraycopy( a, index, a, index + 1, size - index );
    a[ index ] = k;
    size++;
    if ( ASSERTS ) assert size <= a.length;
    }

public boolean add( final KEY_GENERIC_TYPE k ) {
    grow( size + 1 );
    a[ size++ ] = k;
    if ( ASSERTS ) assert size <= a.length;
    return true;
    }

public KEY_GENERIC_TYPE GET_KEY( final int index ) {

```

```

    if ( index >= size ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to list
size (" + size + ")" );
    return a[ index ];
}

```

```

public int indexOf( final KEY_TYPE k ) {
    for( int i = 0; i < size; i++ ) if ( KEY_EQUALS( k, a[ i ]
) ) return i;
    return -1;
}

```

```

public int lastIndexOf( final KEY_TYPE k ) {
    for( int i = size; i-- != 0; ) if ( KEY_EQUALS( k, a[ i ] ) ) return i;
    return -1;
}

```

```

public KEY_GENERIC_TYPE REMOVE_KEY( final int index ) {
    if ( index >= size ) throw new IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to list
size (" + size + ")" );
    final KEY_GENERIC_TYPE old = a[ index ];
    size--;
    if ( index != size ) System.arraycopy( a, index + 1, a, index, size - index );
#ifdef keys(reference)
    a[ size ] = null;
#endif
    if ( ASSERTS ) assert size <= a.length;
    return old;
}

```

```

public boolean rem( final KEY_TYPE k ) {
    int index = indexOf( k );
    if ( index == -1 ) return false;
    REMOVE_KEY( index );
    if ( ASSERTS ) assert size <= a.length;
    return true;
}

```

```

#ifdef keys(reference)
public boolean remove( final Object o ) {
    return rem( o );
}
#endif

```

```

public KEY_GENERIC_TYPE set( final int index, final KEY_GENERIC_TYPE k ) {
    if ( index >= size ) throw new
IndexOutOfBoundsException( "Index (" + index + ") is greater than or equal to list size (" + size + ")" );
    KEY_GENERIC_TYPE old = a[ index ];

```

```

a[ index ] = k;
return old;
}

public void clear() {
    #if #keys(reference)
        Arrays.fill( a, 0, size, null );
    #endif
    size = 0;
    if ( ASSERTS ) assert size <= a.length;
}

public int size() {
    return size;
}

public void size( final int size ) {
    if ( size > a.length ) ensureCapacity( size );
    if ( size > this.size ) Arrays.fill( a, this.size, size, KEY_NULL );
    #if #keys(reference)
        else Arrays.fill( a, size, this.size, KEY_NULL );
    #endif
    this.size = size;
}

public boolean isEmpty() {
    return size == 0;
}

/** Trims this array list so that the capacity is equal to the size.
 *
 * @see java.util.ArrayList#trimToSize()
 */
public void trim() {
    trim( 0 );
}

/** Trims the backing array if it is too large.
 *
 * If the current array length is smaller than or equal to
 * <code>n</code>, this method does nothing.
 * Otherwise, it trims the
 * array length to the maximum between <code>n</code> and { @link #size() }.
 *
 * <P>This method is useful when reusing lists. { @linkplain #clear() Clearing a
 * list} leaves the array length untouched. If you are reusing a list
 * many times, you can call this method with a typical
 * size to avoid keeping around a very large array just

```

```

* because of a few large transient lists.
*
* @param n the threshold for the trimming.
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public void trim( final int n ) {
    // TODO: use Arrays.trim() and preserve type only if necessary
    if ( n >= a.length || size == a.length ) return;
    final KEY_GENERIC_TYPE t[] = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ Math.max( n, size ) ];
    System.arraycopy( a, 0, t, 0, size );
    a = t;
    if ( ASSERTS ) assert size <= a.length;
}

/** Copies element of this type-specific list into the given array using optimized system calls.
*
* @param from the start index (inclusive).
*
* @param a the destination array.
* @param offset the offset into the destination array where to store the first element copied.
* @param length the number of elements to be copied.
*/

public void getElements( final int from, final KEY_TYPE[] a, final int offset, final int length ) {
    ARRAYS.ensureOffsetLength( a, offset, length );
    System.arraycopy( this.a, from, a, offset, length );
}

/** Removes elements of this type-specific list using optimized system calls.
*
* @param from the start index (inclusive).
* @param to the end index (exclusive).
*/

public void removeElements( final int from, final int to ) {
    it.unimi.dsi.fastutil.Arrays.ensureFromTo( size, from, to );
    System.arraycopy( a, to, a, from, size - to );
    size -= ( to - from );
    #if #keys(reference)
    int i = to - from;
    while( i-- != 0 ) a[ size + i ] = null;
    #endif
}

/** Adds elements to this type-specific list using optimized system calls.
*

```

```

* @param index the index at which to add elements.

* @param a the array containing the elements.
* @param offset the offset of the first element to add.
* @param length the number of elements to add.
*/
public void addElements( final int index, final KEY_GENERIC_TYPE a[], final int offset, final int length ) {
    ensureIndex( index );
    ARRAYS.ensureOffsetLength( a, offset, length );
    grow( size + length );
    System.arraycopy( this.a, index, this.a, index + length, size - index );
    System.arraycopy( a, offset, this.a, index, length );
    size += length;
}

```

```

#if #keys(primitive)

```

```

public KEY_TYPE[] TO_KEY_ARRAY( KEY_TYPE a[] ) {
    if ( a == null || a.length < size ) a = new KEY_TYPE[ size ];
    System.arraycopy( this.a, 0, a, 0, size );
    return a;
}

```

```

public boolean addAll( int index, final COLLECTION c ) {
    ensureIndex( index );
    int n = c.size();
    if ( n == 0 ) return false;
    grow( size + n );
    if ( index != size ) System.arraycopy( a, index, a, index + n, size - index );
    final KEY_ITERATOR i = c.iterator();
    size
    += n;
    while( n-- != 0 ) a[ index++ ] = i.NEXT_KEY();
    if ( ASSERTS ) assert size <= a.length;
    return true;
}

```

```

public boolean addAll( final int index, final LIST l ) {
    ensureIndex( index );
    final int n = l.size();
    if ( n == 0 ) return false;
    grow( size + n );
    if ( index != size ) System.arraycopy( a, index, a, index + n, size - index );
    l.getElements( 0, a, index, n );
    size += n;
    if ( ASSERTS ) assert size <= a.length;
}

```

```

return true;
}

#endif

public KEY_LIST_ITERATOR KEY_GENERIC listIterator( final int index ) {
    ensureIndex( index );

    return new KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC() {
        int pos = index, last = -1;

        public boolean hasNext() { return pos < size; }
        public boolean hasPrevious() { return pos > 0; }
        public KEY_GENERIC_TYPE NEXT_KEY() { if ( ! hasNext() ) throw new NoSuchElementException(); return a[
last = pos++ ]; }
        public KEY_GENERIC_TYPE PREV_KEY() { if ( ! hasPrevious() ) throw new NoSuchElementException(); return a[
last = --pos ]; }
        public int nextIndex() { return pos; }
        public int previousIndex() { return pos - 1; }
        public void add( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            ARRAY_LIST.this.add( pos++, k );
            last = -1;
        }
        public void set( KEY_GENERIC_TYPE k ) {
            if ( last == -1 ) throw new IllegalStateException();
            ARRAY_LIST.this.set( last, k );
        }
        public void remove() {
            if ( last == -1 ) throw new IllegalStateException();
            ARRAY_LIST.this.REMOVE_KEY( last );
            /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
            if ( last < pos ) pos--;
            last = -1;
        }
    };
}

public ARRAY_LIST KEY_GENERIC clone() {
    ARRAY_LIST KEY_GENERIC c = new ARRAY_LIST KEY_GENERIC( size );
    System.arraycopy( a, 0, c.a, 0, size );
    c.size = size;
    return c;
}

```

```

#if #keyclass(Object)
private boolean valEquals( final K a, final K b ) {
    return
    a == null ? b == null : a.equals( b );
}
#endif

/** Compares this type-specific array list to another one.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited from the abstract implementation would already work.
 *
 * @param l a type-specific array list.
 * @return true if the argument contains the same elements of this type-specific array list.
 */
public boolean equals( final ARRAY_LIST KEY_GENERIC l ) {
    if ( l == this ) return true;
    int s = size();
    if ( s != l.size() ) return false;
    final KEY_GENERIC_TYPE[] a1 = a;
    final KEY_GENERIC_TYPE[] a2 = l.a;

#if #keyclass(Object)
    while( s-- != 0 ) if ( ! valEquals( a1[ s ], a2[ s ] ) ) return false;
#else
    while( s-- != 0 ) if ( a1[ s ] != a2[ s ] ) return false;
#endif
    return true;
}

#if ! #keyclass(Reference)

/** Compares this array list to another array list.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited
 * from the abstract implementation would already work.
 *
 * @param l an array list.
 * @return a negative integer,
 * zero, or a positive integer as this list is lexicographically less than, equal
 * to, or greater than the argument.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public int compareTo( final ARRAY_LIST KEY_EXTENDS_GENERIC l ) {
    final int s1 = size(), s2 = l.size();
    final KEY_GENERIC_TYPE a1[] = a, a2[] = l.a;

```

```

KEY_GENERIC_TYPE e1, e2;
int r, i;

for( i = 0; i < s1 && i < s2; i++ ) {
    e1 = a1[ i ];
    e2 = a2[ i ];
    if ( ( r = KEY_CMP( e1, e2 ) ) != 0 ) return r;
}

return i < s2 ? -1 : ( i < s1 ? 1 : 0 );
}
#endif

private void writeObject( java.io.ObjectOutputStream s ) throws java.io.IOException {
    s.defaultWriteObject();
    for( int i = 0; i < size; i++ ) s.WRITE_KEY( a[ i ] );
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject( java.io.ObjectInputStream s ) throws java.io.IOException, ClassNotFoundException {
    s.defaultReadObject();
    a
= KEY_GENERIC_ARRAY_CAST new KEY_TYPE[ size ];
    for( int i = 0; i < size; i++ ) a[ i ] = KEY_GENERIC_CAST s.READ_KEY();
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random( seed );

private static KEY_TYPE genKey() {
    #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
        return (KEY_TYPE)(r.nextInt());
    #elif #keys(primitive)
        return r.NEXT_KEY();
    #elif #keyclass(Object)
        return Integer.toBinaryString( r.nextInt() );
    #else
        return new java.io.Serializable() {};
    #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat( "#,###.00" );
private static java.text.FieldPosition p = new java.text.FieldPosition( 0 );

```

```

private static String format( double d ) {
    StringBuffer s = new StringBuffer();
    return format.format( d, s, p ).toString();
}

private static void speedTest( int n, boolean comp ) {
    System.out.println( "There are presently no speed
tests for this class." );
}

private static void fatal( String msg ) {
    System.out.println( msg );
    System.exit( 1 );
}

private static void ensure( boolean cond, String msg ) {
    if ( cond ) return;
    fatal( msg );
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static ARRAY_LIST topList;

protected static void testLists( LIST m, java.util.List t, int n, int level ) {
    long ms;
    Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds;
    Object rt = null;
    KEY_TYPE rm = KEY_NULL;

    if ( level > 4 ) return;

    /* Now we check that both sets agree on random keys. For m we use the polymorphic method. */

    for( int i = 0; i < n; i++ ) {
        int p = r.nextInt() % ( n * 2 );

        KEY_TYPE T = genKey();
        mThrowsOutOfBounds = tThrowsOutOfBounds = null;

        try {
            m.set( p, T );
        }
        catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
        try {

```

```

    t.set( p, KEY2OBJ(
T ) );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
set() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")" );
if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( KEY2OBJ( m.GET_KEY( p ) ) ), "Error (" + level +
", " + seed + "): m and t differ after set() on position " + p + " (" + m.GET_KEY( p ) + ", " + t.get( p ) + ")" );

p = r.nextInt() % ( n * 2 );
mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
    m.GET_KEY( p );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
try {
    t.get( p );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
get() divergence at
start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")" );
if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( KEY2OBJ( m.GET_KEY( p ) ) ), "Error (" + level +
", " + seed + "): m and t differ aftr get() on position " + p + " (" + m.GET_KEY( p ) + ", " + t.get( p ) + ")" );

}

/* Now we check that both sets agree on random keys. For m we use the standard method. */

for( int i = 0; i < n; i++ ) {
    int p = r.nextInt() % ( n * 2 );

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
    try {
        t.get( p );
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }
}

```

```

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
get() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", "
+ tThrowsOutOfBounds + ")" );
    if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( m.get( p ) ), "Error (" + level + ", " + seed + "): m and
t differ at start on position " + p + " (" + m.get( p ) + ", " + t.get( p ) + ")" );

}

/* Now we check that m and t are equal. */
if ( !m.equals( t ) || !t.equals( m ) ) System.err.println("m: " + m + " t: " + t);

ensure( m.equals( t ), "Error (" + level + ", " + seed + "): ! m.equals( t ) at start" );
ensure( t.equals( m ), "Error (" + level + ", " + seed + "): ! t.equals( m ) at start" );

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext(); ) {
    ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)" );
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.listIterator(); i.hasNext(); ) {
    ensure( t.contains( i.next() ), "Error (" + level +
", " + seed + "): m and t differ on an entry after insertion (iterating on m)" );
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    ensure( m.contains(T) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in content
between t and m (polymorphic method)" );
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
    KEY_TYPE T = genKey();
    ensure( m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in
content between t and m (polymorphic method)" );
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

```

```

for(int i=0; i<2*n; i++) {
    KEY_TYPE T = genKey();

    try {
        m.add( T );
    }
    catch ( IndexOutOfBoundsException
e ) { mThrowsOutOfBounds = e; }

    try {
        t.add( KEY2OBJ( T ) );
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    T = genKey();
    int p = r.nextInt() % ( 2 * n + 1 );

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.add(p, T );
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        t.add(p, KEY2OBJ(T));
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
add() divergence in IndexOutOfBoundsException for index " + p + " for " + T + " (" + mThrowsOutOfBounds + ", "
+ tThrowsOutOfBounds + ")" );

    p = r.nextInt() % ( 2 * n + 1 );

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        rm = m.REMOVE_KEY(p);
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        rt = t.remove(p);
    }
    catch ( IndexOutOfBoundsException

```

```

e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
remove() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")" );
    if ( mThrowsOutOfBounds == null ) ensure( rt.equals( KEY2OBJ( rm ) ), "Error (" + level + ", " + seed + "):
divergence in remove() between t and m (" + rt + ", " + rm + ")" );
    }

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after add/remove" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after add/remove" );

/* Now we add random data in m and t using addAll on a collection, checking that the result is the same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2 * n + 1 );
    Collection m1 = new java.util.ArrayList();
    int s = r.nextInt( n / 2 + 1 );
    for( int j = 0; j < s; j++ ) m1.add( KEY2OBJ( genKey() ) );

    mThrowsOutOfBounds
= tThrowsOutOfBounds = null;

    try {
        m.addAll(p, m1);
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        t.addAll(p, m1);
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" + mThrowsOutOfBounds
+ ", " + tThrowsOutOfBounds + ")" );

    ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after addAll" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals( m ) after addAll" );
    }

if ( m.size() > n ) {
    m.size( n );
    while( t.size() != n ) t.remove( t.size() -1 );
}

/* Now we add random data in m and t using addAll on a type-specific collection, checking that the result is the

```

```

same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2
* n + 1 );
    COLLECTION m1 = new ARRAY_LIST();
    Collection t1 = new java.util.ArrayList();
    int s = r.nextInt( n / 2 + 1 );
    for( int j = 0; j < s; j++) {
        KEY_TYPE x = genKey();
        m1.add( x );
        t1.add( KEY2OBJ( x ) );
    }

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.addAll(p, m1);
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        t.addAll(p, t1);
    }
    catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

    ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
polymorphic addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );

    ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after polymorphic addAll" );
    ensure( t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals( m ) after polymorphic addAll"
);
}

if ( m.size() > n ) {
    m.size( n );
    while( t.size() != n ) t.remove( t.size() -1 );
}

/* Now we add random data in m and t using addAll on a list, checking that the result is the same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2 * n + 1 );
    LIST m1 = new ARRAY_LIST();
    Collection t1 = new java.util.ArrayList();
    int s = r.nextInt( n / 2 + 1 );
    for( int j = 0; j < s; j++) {

```

```

KEY_TYPE x = genKey();
m1.add( x );
t1.add( KEY2OBJ( x ) );
}

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
    m.addAll(p, m1);
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

try {
    t.addAll(p, t1);
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
list addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds +
", " + tThrowsOutOfBounds + ")");

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after list addAll" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after list addAll" );
}

/* Now we add random data in m and t using addElements, checking that the result is the same. */

for(int i=0; i<n; i++) {
    int p = r.nextInt() % ( 2 * n + 1 );
    Collection t1 = new java.util.ArrayList();
    int s = r.nextInt( n / 2 + 1 );
    KEY_TYPE a[] = new KEY_TYPE [ s ];
    for( int j = 0; j < s; j++ ) {
        KEY_TYPE x = genKey();
        t1.add( KEY2OBJ( x ) );
        a[ j ] = x;
    }

    mThrowsOutOfBounds = tThrowsOutOfBounds = null;

    try {
        m.addElements(p, a);
    }
    catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }

    try {
        t.addAll(p, t1);

```

```

}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level
+ ", " + seed + "): list addElements() divergence in IndexOutOfBoundsException for index " + p + " for " + t1 + " ("
+ mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")" );

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after list addElements" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after list addElements" );
}

if ( m.size() > n ) {
m.size( n );
while( t.size() != n ) t.remove( t.size() -1 );
}

/* Now we check that m actually holds the same data. */

for(Iterator i=t.iterator(); i.hasNext(); ) {
ensure( m.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(Iterator i=m.listIterator(); i.hasNext(); ) {
ensure( t.contains( i.next() ), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

/* Now we check that both sets agree on random keys. For m we use the standard method. */

for( int i = 0; i < n; i++ ) {
int p = r.nextInt() % ( n * 2 );

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
m.get( p );
}
catch ( IndexOutOfBoundsException e ) { mThrowsOutOfBounds = e; }
try {
t.get( p );
}
catch ( IndexOutOfBoundsException e ) { tThrowsOutOfBounds = e; }

ensure( ( mThrowsOutOfBounds == null ) == ( tThrowsOutOfBounds == null ), "Error (" + level + ", " + seed + "):
get() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +

```

```

tThrowsOutOfBounds + ")");
    if ( mThrowsOutOfBounds == null ) ensure( t.get( p ).equals( m.get( p ) ), "Error (" + level + ", " + seed + "): m and
t differ on position " + p + " (" + m.get( p ) + ", " + t.get( p ) + ")" );

    }

    /* Now we inquiry about the content with indexOf()/lastIndexOf(). */

    for(int i=0; i<10*n; i++) {
        KEY_TYPE T
        = genKey();
        ensure( m.indexOf( KEY2OBJ( T ) ) == t.indexOf( KEY2OBJ( T ) ),
            "Error (" + level + ", " + seed + "): indexOf() divergence for " + T + " (" + m.indexOf( KEY2OBJ( T ) ) + ", " +
t.indexOf( KEY2OBJ( T ) ) + ")" );
        ensure( m.lastIndexOf( KEY2OBJ( T ) ) == t.lastIndexOf( KEY2OBJ( T ) ),
            "Error (" + level + ", " + seed + "): lastIndexOf() divergence for " + T + " (" + m.lastIndexOf( KEY2OBJ( T ) ) + ",
" + t.lastIndexOf( KEY2OBJ( T ) ) + ")" );
        ensure( m.indexOf( T ) == t.indexOf( KEY2OBJ( T ) ),
            "Error (" + level + ", " + seed + "): polymorphic indexOf() divergence for " + T + " (" + m.indexOf( T ) + ", " +
t.indexOf( KEY2OBJ( T ) ) + ")" );
        ensure( m.lastIndexOf( T ) == t.lastIndexOf( KEY2OBJ( T ) ),
            "Error (" + level + ", " + seed + "): polymorphic lastIndexOf() divergence for " + T + " (" + m.lastIndexOf( T ) + ",
" + t.lastIndexOf( KEY2OBJ( T ) ) + ")" );
    }

    /* Now we check cloning. */

    if ( level == 0 ) {
        ensure( m.equals( ((ARRAY_LIST)m).clone()
), "Error (" + level + ", " + seed + "): m does not equal m.clone()" );
        ensure( ((ARRAY_LIST)m).clone().equals( m ), "Error (" + level + ", " + seed + "): m.clone() does not equal m" );
    }

    /* Now we play with constructors. */
    ensure( m.equals( new ARRAY_LIST( (Collection)m ) ), "Error (" + level + ", " + seed + "): m does not equal new (
Collection m )" );
    ensure( ( new ARRAY_LIST( (Collection)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( Collection m
)does not equal m" );
    ensure( m.equals( new ARRAY_LIST( (COLLECTION)m ) ), "Error (" + level + ", " + seed + "): m does not equal
new ( type-specific Collection m )" );
    ensure( ( new ARRAY_LIST( (COLLECTION)m ) ).equals( m ), "Error (" + level + ", " + seed + "): new ( type-
specific Collection m ) does not equal m" );
    ensure( m.equals( new ARRAY_LIST( (LIST)m ) ), "Error (" + level + ", " + seed + "): m does not equal new (
type-specific List m )" );
    ensure( ( new ARRAY_LIST( (LIST)m
) ).equals( m ), "Error (" + level + ", " + seed + "): new ( type-specific List m ) does not equal m" );
    ensure( m.equals( new ARRAY_LIST( m.listIterator() ) ), "Error (" + level + ", " + seed + "): m does not equal new
( m.listIterator() )" );

```

```

    ensure( ( new ARRAY_LIST( m.listIterator() ) ).equals( m ), "Error (" + level + ", " + seed + "): new (
m.listIterator() ) does not equal m" );
    ensure( m.equals( new ARRAY_LIST( m.iterator() ) ), "Error (" + level + ", " + seed + "): m does not equal new (
m.type_specific_iterator() )" );
    ensure( ( new ARRAY_LIST( m.iterator() ) ).equals( m ), "Error (" + level + ", " + seed + "): new (
m.type_specific_iterator() ) does not equal m" );

    /* Now we play with conversion to array, wrapping and copying. */
    ensure( m.equals( new ARRAY_LIST( m.TO_KEY_ARRAY() ) ), "Error (" + level + ", " + seed + "): m does not
equal new ( toArray( m ) )" );
    ensure( ( new ARRAY_LIST( m.TO_KEY_ARRAY() ) ).equals( m ), "Error (" + level + ", " + seed + "):
new ( toArray( m ) ) does not equal m" );
    ensure( m.equals( wrap( m.TO_KEY_ARRAY() ) ), "Error (" + level + ", " + seed + "): m does not equal wrap (
toArray( m ) )" );
    ensure( ( wrap( m.TO_KEY_ARRAY() ) ).equals( m ), "Error (" + level + ", " + seed + "): wrap ( toArray( m ) )
does not equal m" );

    int h = m.hashCode();

    /* Now we save and read m. */

    LIST m2 = null;

    try {
        java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
        java.io.OutputStream os = new java.io.FileOutputStream(ff);
        java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

        oos.writeObject(m);
        oos.close();

        java.io.InputStream is = new java.io.FileInputStream(ff);
        java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

        m2 = (LIST)ois.readObject();
        ois.close();
        ff.delete();
    }
    catch(Exception e) {
        e.printStackTrace();
        System.exit( 1 );
    }

    #if ! #keyclass(Reference)
        ensure( m2.hashCode() == h, "Error (" + level
+ ", " + seed + "): hashCode() changed after save/read" );
    #endif

```

```

/* Now we check that m2 actually holds that data. */

ensure( m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals( t ) after save/read" );
ensure( t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals( m2 ) after save/read" );
/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext(); ) m2.remove(i.next());

ensure( m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)" );
#endif

/* Now we play with iterators. */

{
KEY_LIST_ITERATOR i;
java.util.ListIterator j;
Object J;
i = m.listIterator();
j = t.listIterator();

for( int k = 0; k < 2*n; k++ ) {
ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()" );
ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()" );

if
( r.nextFloat() < .8 && i.hasNext() ) {
ensure( i.next().equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next()" );

if ( r.nextFloat() < 0.2 ) {
i.remove();
j.remove();
}
else if ( r.nextFloat() < 0.2 ) {
KEY_TYPE T = genKey();
i.set( T );
j.set( KEY2OBJ( T ) );
}
else if ( r.nextFloat() < 0.2 ) {
KEY_TYPE T = genKey();
i.add( T );
j.add( KEY2OBJ( T ) );
}
}
else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
ensure( i.previous().equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous()" );

if ( r.nextFloat() < 0.2 ) {
i.remove();
}
}
}
}

```

```

    j.remove();
  }
  else if ( r.nextFloat() < 0.2 ) {
    KEY_TYPE T = genKey();
    i.set( T );
    j.set( KEY2OBJ( T ) );
  }
  else if ( r.nextFloat() < 0.2 ) {
    KEY_TYPE T = genKey();
    i.add( T );
    j.add( KEY2OBJ( T ) );
  }
}

ensure( i.nextIndex()
== j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()" );
ensure( i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()" );

}

}

{
Object previous = null;
Object I, J;
int from = r.nextInt( m.size() +1 );
KEY_LIST_ITERATOR i;
java.util.ListIterator j;
i = m.listIterator( from );
j = t.listIterator( from );

for( int k = 0; k < 2*n; k++ ) {
  ensure( i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")" );
  ensure( i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious() (iterator
with starting point " + from + ")" );

  if ( r.nextFloat() < .8 && i.hasNext() ) {
    ensure( ( I = i.next() ).equals( J = j.next() ), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point
" + from + ")" );
    //System.err.println("Done next " + I + " " + J + " " + badPrevious);

    if ( r.nextFloat() < 0.2 ) {
      //System.err.println("Removing in next");
      i.remove();
      j.remove();
    }
  }
}

```

```

else if ( r.nextFloat() < 0.2 ) {
    KEY_TYPE T = genKey();
    i.set( T );
    j.set( KEY2OBJ( T ) );
}
else if ( r.nextFloat() < 0.2 ) {
    KEY_TYPE T = genKey();
    i.add( T );
    j.add( KEY2OBJ( T ) );
}
else if ( r.nextFloat() < .2 && i.hasPrevious() ) {
    ensure( ( I = i.previous() ).equals( J = j.previous() ), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")" );

    if ( r.nextFloat() < 0.2 ) {
        //System.err.println("Removing in prev");
        i.remove();
        j.remove();
    }
    else if ( r.nextFloat() < 0.2 ) {
        KEY_TYPE T = genKey();
        i.set( T );
        j.set( KEY2OBJ( T ) );
    }
    else if ( r.nextFloat()
< 0.2 ) {
        KEY_TYPE T = genKey();
        i.add( T );
        j.add( KEY2OBJ( T ) );
    }
}

}

/* Now we check that m actually holds that data. */

ensure( m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals( t ) after iteration" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after iteration" );

/* Now we select a pair of keys and create a subset. */

if ( ! m.isEmpty() ) {
    int start = r.nextInt( m.size() );
    int end = start + r.nextInt( m.size() - start );
    //System.err.println("Checking subList from " + start + " to " + end + " (level=" + (level+1) + ")..." );
    testLists( m.subList( start, end ), t.subList( start, end ), n, level + 1 );
}

```

```

ensure( m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals( t ) after subList" );
ensure( t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals( m ) after subList" );

}

m.clear();
t.clear();
ensure( m.isEmpty(), "Error (" + level
+ ", " + seed + "): m is not empty after clear()" );
}

protected static void test( int n ) {
    ARRAY_LIST m = new ARRAY_LIST();
    java.util.ArrayList t = new java.util.ArrayList();
    topList = m;
    k = new Object[n];
    nk = new Object[n];
    kt = new KEY_TYPE[n];
    nkt = new KEY_TYPE[n];

    for( int i = 0; i < n; i++ ) {
#if #keys(reference)
        k[i] = kt[i] = genKey();
        nk[i] = nkt[i] = genKey();
#else
        k[i] = new KEY_CLASS( kt[i] = genKey() );
        nk[i] = new KEY_CLASS( nkt[i] = genKey() );
#endif
    }

    /* We add pairs to t. */
    for( int i = 0; i < n; i++ ) t.add( k[i] );

    /* We add to m the same data */
    m.addAll(t);

    testLists( m, t, n, 0 );

    System.out.println("Test OK");
    return;
}

public static void main( String args[] ) {
    int n = Integer.parseInt(args[1]);
    if ( args.length > 2 ) r = new java.util.Random( seed = Long.parseLong( args[ 2 ] ) );
}

```

```

try {
  if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest( n, "speedComp".equals(args[0])
);
  else if ( "test".equals( args[0] ) ) test(n);
} catch( Throwable e ) {
  e.printStackTrace( System.err );
  System.err.println( "seed: " + seed );
}
}

#endif

}

```

Found in path(s):

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayList.drv

1.348 fdisk 2.34.0

1.348.1 Available under license :

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Version 2.1, February 1999

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*/

1.349 gson 2.10.1

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Manifest-Version: 1.0

Created-By: 11.0.16.1 (Azul Systems, Inc.)

Build-Jdk-Spec: 11

Bnd-LastModified: 1673019830620

Bundle-ContactAddress: <https://github.com/google/gson>
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://www.google.com"
Bundle-DocURL: <https://github.com/google/gson/gson>
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project
Bundle-Version: 2.10.1
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;version="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):

* /opt/cola/permits/1570533427_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

1.350 protobuf-java-util 3.19.2

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Found in path(s):

* /opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-

```
jar/com/google/protobuf/util/Durations.java
* /opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-
jar/com/google/protobuf/util/FieldMaskUtil.java
*
/opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-
jar/com/google/protobuf/util/FieldMaskTree.java
* /opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-
jar/com/google/protobuf/util/Timestamps.java
* /opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-
jar/com/google/protobuf/util/Values.java
* /opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-
jar/com/google/protobuf/util/JsonFormat.java
* /opt/cola/permits/1576001157_1677317889.076836/0/protobuf-java-util-3-19-2-sources-1-
jar/com/google/protobuf/util/Structs.java
```

1.351 bctls-fips 1.0.11

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```
public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");
```

Found in path(s):

```
* /opt/cola/permits/1578319123_1677553828.530245/0/bctls-fips-1-0-11-sources-1-
jar/org/bouncycastle/tls/ProtocolName.java
```

1.352 flink-shaded-asm-9 9.2-15.0

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ASM: a very small and fast Java bytecode manipulation framework

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1.353 flink-shaded-jackson 2.12.4-15.0

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- com.fasterxml.jackson.core:jackson-annotations:2.12.4  
- com.fasterxml.jackson.core:jackson-core:2.12.4  
- com.fasterxml.jackson.core:jackson-databind:2.12.4  
- com.fasterxml.jackson.dataformat:jackson-dataformat-csv:2.12.4  
- com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.12.4  
-  
  com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.12.4  
- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.12.4  
- org.yaml:snakeyaml:1.29
```

Jackson JSON processor

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* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/CertificateVerifier.java

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* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java

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* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/Library.java

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* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/Buffer.java

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* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java
* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/CertificateRequestedCallback.java

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* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/SSLTask.java

*

/opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/CertificateCallbackTask.java

* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java

```
* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1587991650_1678350388.0691664/0/netty-tcnative-boringssl-static-2-0-38-final-sources-
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jar/io/netty/internal/tcnative/SSLSession.java
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1.355 flink-shaded-guava 30.1.1-jre-15.0

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SCOWL (Spell Checker Oriented Word Lists) is a collection of English word lists maintained by Kevin Atkinson <kevina@users.sourceforge.net>

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to

the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Arcata, CA 95521-4884

grady@netcom.com
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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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> Wordlist With Frequency Classification" word list as it seems to
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Date: Tue, 11 Jul 2000 19:31:34 +0100

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1.358 libpkit 0.23.20-1ubuntu0.1

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1.360 jetty-http-spi 9.4.18.v20190429

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 - * /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/offheap/FSTCodedOffheapMap.java
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 - * /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTCPEnumSetSerializer.java
 - * /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/FSTDecoder.java
 - * /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/serializers/FSTStringBufferSerializer.java
 - * /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-

jar/org/nustaq/kson/KsonArgTypesResolver.java
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/opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/annotations/OneOf.java
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jar/org/nustaq/serialization/minbin/MBSequence.java
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* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/offheap/structs/FSTEmbeddedBinary.java
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jar/org/nustaq/serialization/FSTObjectInputNoShared.java
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jar/org/nustaq/kson/KsonParseException.java
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 * /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-jar/org/nustaq/serialization/minbin/MBRef.java
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* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/offheap/structs/structtypes/StructByteString.java
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```

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* /opt/cola/permits/1618782532_1684387862.936112/0/fst-2-52-sources-2-
jar/org/nustaq/serialization/serializers/FSTJSonUnmodifiableMapSerializer.java
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jar/org/nustaq/serialization/serializers/FSTJSonUnmodifiableCollectionSerializer.java
```

1.367 checker-qual 3.19.0

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1.368 jackson-core 2.13.4

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Jackson JSON processor

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1.369 free-type 2.10.1-2ubuntu0.3

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#
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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
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#
src/pcf/module.mk
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src/pcf/pcferror.h
src/pcf/pcfread.c
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src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
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#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
```

```
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
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1.371 servlet-api 2.5

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Used in: user

Found in path(s):

* /opt/cola/permits/1685050648_1684829149.5514498/0/servlet-api-2-5-sources-5-jar/dtd/web-app_2_3.dtd

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* /opt/cola/permits/1685050648_1684829149.5514498/0/servlet-api-2-5-sources-5-

jar/javax/servlet/ServletContextAttributeListener.java

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1.372 aop-alliance 2.6.1

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{\fonttbl{\f0\froman\charset0 Times-Roman;\f1\fmmodern\charset0 Courier;}
{\colortbl;\red255\green255\blue255;\red0\green0\blue0;}
{\*\expandedcolortbl;;\cssrgb\c0\c0\c0;}
\paperw11900\paperh16840\margl1440\margr1440\vieww10800\viewh8400\viewkind0
\defstab720
\pard\pardefstab720\sl280\partightenfactor0

\f0\fs24 \cf2 \expnd0\expndtw0\kerning0
\outl0\strokewidth0 \strokec2 This XML file does not appear to have any style information associated with it. The
document tree is shown below.\
\pard\pardefstab720\sl300\partightenfactor0

\f1\fs26 \cf2 <!--\
\
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-->

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
```

```
<groupId>org.glassfish.hk2</groupId>
```

```
<artifactId>external</artifactId>
```

```
<version>2.6.1</version>
```

```
</parent>
```

```
<groupId>org.glassfish.hk2.external</groupId>
```

```
<artifactId>aopalliance-repackaged</artifactId>
```

```
<name>
```

```
aopalliance version ${aopalliance.version} repackaged as a module
```

```
</name>
```

```
<build>
```

```
<plugins>
```

```
<plugin>
```

```
<groupId>org.apache.maven.plugins</groupId>
```

```
<artifactId>maven-dependency-plugin</artifactId>
```

```
<executions>
```

```
<execution>
```

```
<id>step1-unpack-sources</id>
```

```
<phase>process-sources</phase>
```

```
<goals>
```

```
<goal>unpack</goal>
```

```
</goals>
```

```
<configuration>
```

```
<artifactItems>
```

```
<artifactItem>
```

```
<groupId>aopalliance</groupId>
```

```
<artifactId>aopalliance</artifactId>
```

```
<version>${aopalliance.version}</version>
```

```
<classifier>sources</classifier>
```

```
<overwrite>>false</overwrite>
```

```

<outputDirectory>${project.build.directory}/alternateLocation</outputDirectory>
</artifactItem>
</artifactItems>
</configuration>
</execution>
</executions>
</plugin>
<plugin>
<groupId>org.codehaus.mojo</groupId>
<artifactId>build-helper-maven-plugin</artifactId>
<executions>
<execution>
<id>step2-add-sources</id>
<phase>process-sources</phase>
<goals>
<goal>add-source</goal>
</goals>
<configuration>
<sources>
<source>${project.build.directory}/alternateLocation</source>
</sources>
</configuration>
</execution>
</executions>
</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<configuration>
<instructions>
<Embed-Dependency>'a0*;scope=compile;inline=true'a0</Embed-Dependency>
<!--

```

We set a mandatory attribute for these packages, because we don't want them to be visible to just anyone. An importer must specify the mandatory attribute for it to be able to import. See section #3.6.5 of OSGi R4 spec.

Why is this required?
See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385
By doing this, we allow user have any version of apache-commons lib in their application class loader hierarchy. They don't even have to set delegation=false in sun-web.xml! This is the true advantage of using OSGi.

Sahoo.

```

-->
<Export-Package>org.aopalliance.*;version=${aopalliance.version}</Export-Package>
<Private-Package>!*</Private-Package>
</instructions>

```

```

</configuration>
<executions>
<execution>
<id>osgi-manifest</id>
<phase>process-classes</phase>
<goals>
<goal>manifest</goal>
</goals>
</execution>
</executions>
</plugin>
</plugins>
</build>
<dependencies>
<dependency>
<groupId>aopalliance</groupId>
<artifactId>aopalliance</artifactId>
<version>${aopalliance.version}</version>
<optional>true</optional>
</dependency>
</dependencies>
</project>
}

```

Found in path(s):

* /opt/cola/permits/1688041658_1684928894.4895442/0/aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

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```

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@end smallexample
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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.378 ncurses 6.2-0ubuntu2.1

1.378.1 Available under license :

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Files: *

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-- vile: txtmode file-encoding=utf-8
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1.379 kafka-clients 3.2.3

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1.381 spring-expression 5.3.28

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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1.386 spf13-pflag v1.0.5

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1.387 snappy 1.0.5

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

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- * java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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```
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```

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```
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```

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1.400 apt 2.0.10

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it
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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?RCS:

?MAKE:d_fchdir: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fchdir:

?S: This variable conditionally defines the HAS_FCHDIR symbol, which

?S: indicates to the C program that the fchdir() routine is available.

?S:.

?C:HAS_FCHDIR:

?C: This symbol, if defined, indicates that the fchdir routine is

?C: available to change directory using a file descriptor.

?C:.

?H:#\$d_fchdir HAS_FCHDIR /**/

?H:.

?LINT:set d_fchdir

: see if fchdir exists

set fchdir d_fchdir

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fchdir.U

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?MAKE:d_lgamma_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma_r:

?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which

?S: indicates to the C program that the lgamma_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS_LGAMMA_R:

?C: This symbol, if defined, indicates that the lgamma_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d_lgamma_r HAS_LGAMMA_R /**/

?H:.

?LINT:set d_lgamma_r

: see if lgamma_r exists

set lgamma_r d_lgamma_r

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma_r.U

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?RCS:

?MAKE:d_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d_expm1:

?S: This variable conditionally defines the HAS_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d_expm1 HAS_EXPM1 /**/

?H:.

?LINT:set d_expm1

: see if expm1 exists

set expm1 d_expm1

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_expm1.U

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```
/*
 * $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
 *
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 * of the source tree for dist 4.0.
 *
 * Original Author: unknown, got this off net.sources
 *
 * $Log: getopt.C,v $
 * Revision 3.0.1.1 1994/01/24 13:58:40 ram
 * patch16: created
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C
```

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?RCS:

?MAKE:i_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i_quadmath:

?S: This variable conditionally defines I_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i_quadmath I_QUADMATH /**/

?H:.

?LINT:set i_quadmath

: see if this is a quadmath.h system

set quadmath.h i_quadmath

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_quadmath.U

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?RCS:

?MAKE:d_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d_writev:

?S: This variable conditionally defines the HAS_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d_writev HAS_WRITEV /**/

?H:.

?LINT:set d_writev

: see if writev exists

set writev d_writev

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.U

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?RCS:

?MAKE:d_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d_round:

?S: This variable conditionally defines the HAS_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d_round HAS_ROUND /**/

?H:.

```
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_round.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

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?RCS:
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```

```
?RCS:
```

```
?MAKE:d_getmnt: Inlibc
```

```
?MAKE:-pick add $@ %<
```

```
?S:d_getmnt:
```

```
?S: This variable conditionally defines the HAS_GETMNT symbol, which
```

```
?S: indicates to the C program that the getmnt() routine is available
```

```
?S: to retrieve one or more mount info blocks by filename.
```

```
?S:.
```

```
?C:HAS_GETMNT:
```

```
?C: This symbol, if defined, indicates that the getmnt routine is
```

```
?C: available to get filesystem mount info by filename.
```

```
?C:.
```

```
?H:#$d_getmnt HAS_GETMNT /**/
```

```
?H:.
```

```
?LINT:set d_getmnt
```

```
: see if getmnt exists
```

```
set getmnt d_getmnt
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U
```

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```
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```

```
?RCS:
```

```
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
```

```
?RCS:
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```

```
?RCS:
```

```
?MAKE:d_strnlen: Inlibc
```

?MAKE: -pick add \$@ %<

?S:d_strnlen:

?S: This variable conditionally defines the HAS_STRNLEN symbol, which

?S: indicates to the C program that the strnlen () routine is available.

?S:.

?C:HAS_STRNLEN:

?C: This symbol, if defined, indicates that the strnlen () routine is

?C: available to check the length of a string up to a maximum.

?C:.

?H:#\$d_strnlen HAS_STRNLEN /**/

?H:.

?LINT:set d_strnlen

: see if strnlen exists

set strnlen d_strnlen

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strnlen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getfsstat : Inlibc

?MAKE: -pick add \$@ %<

?S:d_getfsstat:

?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which

?S: indicates to the C program that the getfsstat() routine is available.

?S:.

?C:HAS_GETFSSTAT:

?C: This symbol, if defined, indicates that the getfsstat routine is

?C: available to stat filesystems in bulk.

?C:.

?H:#\$d_getfsstat HAS_GETFSSTAT /**/

?H:.

?LINT:set d_getfsstat

: see if getfsstat exists

set getfsstat d_getfsstat

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available. If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbnl.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
```

?C: This is a low-level routine hopefully faster than sprintf.

?C:.

?H:#\$d_qgcvt HAS_QGCVT /**/

?H:.

?LINT:set d_qgcvt

: see if qgcvt exists

set qgcvt d_qgcvt

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_towupper: Inlibc

?MAKE:-pick add \$@ %<

?S:d_towupper:

?S: This variable conditionally defines the HAS_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towupper HAS_TOWUPPER /**/

?H:.

?LINT:set d_towupper

: see if towupper exists

set towupper d_towupper

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towupper.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_poll.U,v \$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_langinfo:

?S: This variable conditionally defines the I_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i_langinfo I_LANGINFO /**/

?H:.

?LINT:set i_langinfo

: see if this is a langinfo.h system

set langinfo.h i_langinfo

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrintl:

?S: This variable conditionally defines the HAS_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrintl HAS_LRINTL /**/

?H:.

?LINT:set d_lrintl

: see if lrintl exists

set lrintl d_lrintl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysmount.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysmount: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysmount:

?S: This variable conditionally defines the I_SYSMOUNT symbol,

?S: and indicates whether a C program should include <sys/mount.h>.

?S:.

?C:I_SYS_MOUNT:

?C: This symbol, if defined, indicates that <sys/mount.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysmount I_SYS_MOUNT /**/

?H:.

?LINT:set i_sysmount

: see if this is a sys/mount.h system

set sys/mount.h i_sysmount

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysuio.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysuio: Inhdr

?MAKE: -pick add \$@ %<

?S:i_sysuio:

?S: This variable conditionally defines the I_SYSUIO symbol, and indicates

?S: whether a C program should include <sys/uio.h>.

?S:.

?C:I_SYSUIO:

?C: This symbol, if defined, indicates that <sys/uio.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysuio I_SYSUIO /**/

?H:.

?LINT:set i_sysuio

: see if this is a sys/uio.h system

set sys/uio.h i_sysuio

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nan:

?S: This variable conditionally defines HAS_NAN if nan() is

?S: available to generate NaN.

```
?S:
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:
?H:#$d_nan HAS_NAN /**/
?H:
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'. This is only used
?S: in the Makefile.SH.
?S:
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#\$i_prot I_PROT /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_prot.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add \$@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#\$d_getnameinfo HAS_GETNAMEINFO /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists

```
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_recvmsg:

?S: This variable conditionally defines the HAS_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_recvmsg HAS_RECVMSG /**/

?H:.

?LINT:set d_recvmsg

: see if recvmsg exists

```
set recvmsg d_recvmsg
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sendmsg:

?S: This variable conditionally defines the HAS_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_sendmsg HAS_SENDMSG /**/

?H:.

?LINT:set d_sendmsg

: see if sendmsg exists

set sendmsg d_sendmsg

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sendmsg.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_readv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_readv:

?S: This variable conditionally defines the HAS_READV symbol, which

?S: indicates to the C program that the readv() routine is available.

?S:.

?C:HAS_READV:

?C: This symbol, if defined, indicates that the readv routine is

?C: available to do gather reads. You will also need <sys/uio.h>

?C: and there I_SYSUIO.

?C:.

?H:#\$d_readv HAS_READV /**/

?H:.

?LINT:set d_readv

: see if readv exists

set readv d_readv

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_bfd.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH /**/
?H:.
```

```
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sunmath.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_atoll: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_atoll:
```

```
?S: This variable conditionally defines the HAS_ATOLL symbol, which
```

```
?S: indicates to the C program that the atoll() routine is available.
```

```
?S:.
```

```
?C:HAS_ATOLL:
```

```
?C: This symbol, if defined, indicates that the atoll routine is
```

```
?C: available to convert strings into long longs.
```

```
?C:.
```

```
?H:#$d_atoll HAS_ATOLL /**/
```

```
?H:.
```

```
?LINT:set d_atoll
```

```
: see if atoll exists
```

```
set atoll d_atoll
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2009 H.Merijn Brand
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_inetpton: Inlibc
```

```
?MAKE: -pick add $@ %<
```

?S:d_inetpton:

?S: This variable conditionally defines the HAS_INETPTON symbol,

?S: which indicates to the C program that the inet_pton() function

?S: is available.

?S:.

?C:HAS_INETPTON:

?C: This symbol, if defined, indicates that the inet_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetpton HAS_INETPTON /**/

?H:.

?LINT:set d_inetpton

: see if inet_pton exists

set inet_pton d_inetpton

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remainder:

?S: This variable conditionally defines the HAS_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d_remainder HAS_REMAINDER /**/

?H:.

?LINT:set d_remainder

: see if remainder exists

set remainder d_remainder

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U

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?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#\$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.U

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?RCS:

?MAKE:d_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdclose:

?S: This variable conditionally defines the HAS_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d_fdclose HAS_FDCLOSE /**/
?H:.

?LINT:set d_fdclose

: see if fdclose exists

set fdclose d_fdclose

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U

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?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add \$@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#\$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isfinitel.U

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?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#\$d_strtod_l HAS_STRTOD_L /**/

?H:
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U

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?RCS:

?MAKE:d_lround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lround:

?S: This variable conditionally defines the HAS_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.

?S:.

?C:HAS_LROUND:

?C: This symbol, if defined, indicates that the lround routine is

?C: available to return the nearest integral value.

?C:.

?H:#\$d_lround HAS_LROUND /**/

?H:.

?LINT:set d_lround

: see if lround exists

set lround d_lround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U

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?RCS:

?MAKE:d_nextafter: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nextafter:

?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()

?S: is available to return the next machine representable double from

?S: x in direction y.

?S:.

?C:HAS_NEXTAFTER:

```
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nextafter.U
```

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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U
```

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```

/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C

```

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?RCS:

?MAKE:d_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log1p:

?S: This variable conditionally defines the HAS_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute $\log(1 + x)$ for values of x close to zero.

?S:.

?C:HAS_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d_log1p HAS_LOG1P /**/

?H:.

?LINT:set d_log1p

: see if log1p exists

set log1p d_log1p

eval \$inlibc

Found in path(s):

```

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.U

```

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```
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?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.U
```

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```
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?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.U

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?RCS:

?MAKE:d_fegetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fegetround:

?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is

?S: available to get the floating point rounding mode.

?S:.

?C:HAS_FEGETROUND:

?C: This symbol, if defined, indicates that the fegetround routine is

?C: available to return the macro corresponding to the current rounding

?C: mode.

?C:.

?H:#\$d_fegetround HAS_FEGETROUND /**/

?H:.

?LINT:set d_fegetround

: see if fegetround exists

set fegetround d_fegetround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fegetround.U

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?RCS:

?MAKE:d_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llroundl:

?S: This variable conditionally defines the HAS_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_llroundl HAS_LLROUNDL /**/

```
?H:
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U
```

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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE /**/
?H:
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U
```

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```
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?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
```

?S: be included.

?S:.

?C:I_FENV:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <fenv.h> to get the floating point environment definitions.

?C:.

?H:#\$i_fenv I_FENV /**/

?H:.

?LINT:set i_fenv

: see if this is a fenv.h system

set fenv.h i_fenv

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.U

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U

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?RCS:

?MAKE:d_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdim:

?S: This variable conditionally defines the HAS_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d_fdim HAS_FDIM /**/

?H:.

?LINT:set d_fdim

: see if fdim exists

set fdim d_fdim

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U

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?RCS:

?MAKE:d_accessx: Inlibc

?MAKE: -pick add \$@ %<

?S:d_accessx:

?S: This variable conditionally defines the HAS_ACCESSX symbol, which

?S: indicates to the C program that the accessx() routine is available.

?S:.

?C:HAS_ACCESSX :

?C: This symbol, if defined, indicates that the accessx routine is

?C: available to do extended access checks.

?C:.

?H:#\$d_accessx HAS_ACCESSX /**/

?H:.

?LINT:set d_accessx

: see if accessx exists

set accessx d_accessx

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.U

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?RCS:

?MAKE:d_setproctitle: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setproctitle:

?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,

?S: which indicates to the C program that the setproctitle() routine

?S: is available.

?S:.

?C:HAS_SETPROCTITLE:

?C: This symbol, if defined, indicates that the setproctitle routine is

?C: available to set process title.

?C:.

?H:#\$d_setproctitle HAS_SETPROCTITLE /**/

?H:.

?LINT:set d_setproctitle

: see if setproctitle exists

set setproctitle d_setproctitle

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U

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?RCS:

?MAKE:d_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remquo:

?S: This variable conditionally defines the HAS_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d_remquo HAS_REMQUO /**/

?H:.

?LINT:set d_remquo

: see if remquo exists

set remquo d_remquo

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U

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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE:-pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U
```

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```
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?RCS:
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?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE:-pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
```

?C:.
?H:#\$d_ualarm HAS_UALARM /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ualarm.U

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?RCS:

?MAKE:d_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_logb:

?S: This variable conditionally defines the HAS_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d_logb HAS_LOGB /**/
?H:.

?LINT:set d_logb

: see if logb exists

set logb d_logb

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_logb.U

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strftime:

?S: This variable conditionally defines the HAS_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d_strftime HAS_STRFTIME /**/

?H:.

?LINT:set d_strftime

: see if strftime exists

set strftime d_strftime

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U

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?RCS:

?MAKE:d_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nexttoward:

?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d_nexttoward HAS_NEXTTOWARD /**/

?H:.

?LINT:set d_nexttoward

: see if nexttoward exists

set nexttoward d_nexttoward

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U

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?RCS:

?MAKE:d_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llround:

?S: This variable conditionally defines the HAS_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d_llround HAS_LLROUND /**/

?H:.

?LINT:set d_llround

: see if llround exists

set llround d_llround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llround.U

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?RCS:

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?RCS:

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?RCS:

?MAKE:d_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_clearenv:

?S: This variable conditionally defines the HAS_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d_clearenv HAS_CLEARENV /**/

?H:.

?LINT:set d_clearenv

: see if clearenv exists

set clearenv d_clearenv

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U

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?RCS:

?MAKE:d_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getitimer:

?S: This variable conditionally defines the HAS_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d_getitimer HAS_GETITIMER /**/

?H:.

?LINT:set d_getitimer

: see if getitimer exists

set getitimer d_getitimer

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getitimer.U

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?RCS:

?MAKE:d_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbn:

?S: This variable conditionally defines the HAS_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

```
?C:.
?H:#$d_scalbn HAS_SCALBN /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add \$@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#\$d_inetntop HAS_INETNTOP /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetntop.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: setsid.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:47 ram

* patch16: created

*

*/

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_ustat.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#\$i_ustat I_USTAT /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ustat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socketmark: Inlibc
?MAKE: -pick add \$@ %<
?S:d_socketmark:
?S: This variable conditionally defines the HAS_SOCKETMARK symbol, which
?S: indicates to the C program that the socketmark() routine is available.
?S:.
?C:HAS_SOCKETMARK:
?C: This symbol, if defined, indicates that the socketmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#\$d_socketmark HAS_SOCKETMARK /**/
?H:.
?LINT:set d_socketmark
: see if socketmark exists

```
set sockatmark d_socketmark
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socketmark.U
```

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fsync:

?S: This variable conditionally defines the HAS_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d_fsync HAS_FSYNC /**/

?H:.

?LINT:set d_fsync

: see if fsync exists

set fsync d_fsync

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_mkdtmp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_mkdtmp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtemp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtemp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d_mkdtemp HAS_MKDTEMP /**/

?H:.

?LINT:set d_mkdtemp

: see if mkdtemp exists

set mkdtemp d_mkdtemp

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtemp.U

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_localeconv_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_localeconv_l:

?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which

?S: indicates to the C program that the localeconv_l() routine is available.

?S:.

?C:HAS_LOCALECONV_L:

?C: This symbol, if defined, indicates that the localeconv_l routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d_localeconv_l HAS_LOCALECONV_L /**/

?H:.

?LINT:set d_localeconv_l

: see if localeconv_l exists

set localeconv_l d_localeconv_l

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U

No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_ erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_ erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_ erf HAS_ERF /**/
?H:.
?LINT:set d_ erf
: see if erf exists
```

```
set erf d_erf
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U
```

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d_dup3: Inlibc

?MAKE: -pick add \$@ %<

?S:d_dup3:

?S: This variable conditionally defines HAS_DUP3 if dup3() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS_DUP3:

?C: This symbol, if defined, indicates that the dup3 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d_dup3 HAS_DUP3 /**/

?H:.

?LINT:set d_dup3

: see if dup3 exists

set dup3 d_dup3

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_dup3.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sqrtl:

?S: This variable conditionally defines the HAS_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS_SQRTL:

?C: This symbol, if defined, indicates that the sqrtl routine is

?C: available to do long double square roots.

?C:.

?H:#\$d_sqrtl HAS_SQRTL /**/

?H:.

?LINT:set d_sqrtl

: see if sqrtl exists

set sqrtl d_sqrtl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sqrtl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_netdb: Inhdr

?MAKE: -pick add \$@ %<

?S:i_netdb:

?S: This variable conditionally defines the I_NETDB symbol, and indicates

?S: whether a C program should include <netdb.h>.

?S:.

?C:I_NETDB:

?C: This symbol, if defined, indicates that <netdb.h> exists and

?C: should be included.

?C:.

?H:#\$i_netdb I_NETDB /**/

?H:.

?LINT:set i_netdb

: see if this is a netdb.h system

set netdb.h i_netdb

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U

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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add \$@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available. If aintl is also present we can emulate modfl.
?C:.
?H:#\$d_copysignl HAS_COPYSIGNL /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_socks.U,v \$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#\$i_socks I_SOCKS /**/

```
?H:
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2008 H.Merijn Brand
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_timegm: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_timegm:
```

```
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
```

```
?S: indicates to the C program that the timegm () routine is available.
```

```
?S:.
```

```
?C:HAS_TIMEGM:
```

```
?C: This symbol, if defined, indicates that the timegm routine is
```

```
?C: available to do the opposite of gmtime ()
```

```
?C:.
```

```
?H:#$d_timegm HAS_TIMEGM /**/
```

```
?H:.
```

```
?LINT:set d_timegm
```

```
: see if timegm exists
```

```
set timegm d_timegm
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_timegm.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_strtold: Inlibc
```

?MAKE: -pick add \$@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#\$d_strtold HAS_STRTOLD /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add \$@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#\$d_finitel HAS_FINITEL /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_finitel.U

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?RCS:

?MAKE:d_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma:

?S: This variable conditionally defines the HAS_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d_tgamma and d_lgamma_r.

?S:.

?C:HAS_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS_TGAMMA and

?C: HAS_LGAMMA_R.

?C:.

?H:#\$d_lgamma HAS_LGAMMA /**/

?H:.

?LINT:set d_lgamma

: see if lgamma exists

set lgamma d_lgamma

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U

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?RCS: \$Id: i_sysstatvfs.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatvfs:

?S: This variable conditionally defines the I_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I_SYS_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysstatvfs I_SYS_STATVFS /**/

```
?H:
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatvfs.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_tgamma:

?S: This variable conditionally defines the HAS_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d_lgamma.

?S:.

?C:HAS_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS_LGAMMA.

?C:.

?H:#\$d_tgamma HAS_TGAMMA /**/

?H:.

```
?LINT:set d_tgamma
```

```
: see if tgamma exists
```

```
set tgamma d_tgamma
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strtoq: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtoq:

?S: This variable conditionally defines the HAS_STRTOQ symbol, which

?S: indicates to the C program that the strtouq() routine is available.

?S:.

?C:HAS_STRTOQ:

?C: This symbol, if defined, indicates that the strtouq routine is

?C: available to convert strings to long longs (quads).

?C:.

?H:#\$d_strtouq HAS_STRTOQ /**/

?H:.

?LINT:set d_strtouq

: see if strtouq exists

set strtouq d_strtouq

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtouq.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fma:

?S: This variable conditionally defines the HAS_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:.

?C:HAS_FMA:

?C: This symbol, if defined, indicates that the fma routine is

?C: available to do the multiply-add function.

?C:.

?H:#\$d_fma HAS_FMA /**/

?H:.

?LINT:set d_fma

: see if fma exists

set fma d_fma

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U

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?RCS:

?MAKE:d_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#\$d_nearbyint HAS_NEARBYINT /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.U

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?RCS: \$Id\$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE:-pick add \$@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#\$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_isnanl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this file is to supply an empty target for the private

?X: Makefile built by metaconfig to order the units.

?X:

?MAKE:Nothing: Head

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/dist/U/Nothing.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_hasmntopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hasmntopt:

?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d_hasmntopt HAS_HASMNTOPT /**/

?H:.

```
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U
```

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fmax: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmax:

?S: This variable conditionally defines the HAS_FMAX symbol, which

?S: indicates to the C program that the fmax() routine is available.

?S:.

?C:HAS_FMAX:

?C: This symbol, if defined, indicates that the fmax routine is

?C: available to do the maximum function.

?C:.

?H:#\$d_fmax HAS_FMAX /**/

?H:.

?LINT:set d_fmax

: see if fmax exists

set fmax d_fmax

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmax.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towlower:

?S: This variable conditionally defines the HAS_TOWLOWER symbol, which

?S: indicates to the C program that the tolower() routine is available.

?S:.

?C:HAS_TOWLOWER:

?C: This symbol, if defined, indicates that the towlower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towlower HAS_TOWLOWER /**/

?H:.

?LINT:set d_towlower

: see if towlower exists

set towlower d_towlower

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysstatfs.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysstatfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatfs:

?S: This variable conditionally defines the I_SYSSTATFS symbol,

?S: and indicates whether a C program should include <sys/statfs.h>.

?S:.

?C:I_SYS_STATFS:

?C: This symbol, if defined, indicates that <sys/statfs.h> exists.

?C:.

?H:#\$i_sysstatfs I_SYS_STATFS /**/

?H:.

?LINT:set i_sysstatfs

: see if this is a sys/statfs.h system

set sys/statfs.h i_sysstatfs

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.U

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?RCS:

?MAKE:i_stdint: Inhdr

?MAKE: -pick add \$@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#\$i_stdint I_STDINT /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_stdint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_crypt.U,v \$
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#\$i_crypt I_CRYPT /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/i_crypt.U

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?RCS:

?MAKE:d_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_acosh:

?S: This variable conditionally defines the HAS_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d_acosh HAS_ACOSH /**/

?H:.

?LINT:set d_acosh

: see if acosh exists

set acosh d_acosh

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_acosh.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erfc:

?S: This variable conditionally defines the HAS_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d_erfc HAS_ERFC /**/

?H:.

?LINT:set d_erfc

: see if erfc exists

set erfc d_erfc

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
```

```
*
```

```
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
*
```

```
* You may redistribute only under the terms of the Artistic Licence,
```

```
* as specified in the README file that comes with the distribution.
```

```
* You may reuse parts of this distribution only within the terms of
```

```
* that same Artistic Licence; a copy of which may be found at the root
```

```
* of the source tree for dist 4.0.
```

```
*
```

```
* $Log: scandir.C,v $
```

```
* Revision 3.0.1.1 1994/01/24 13:58:45 ram
```

```
* patch16: created
```

```
*
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_trunc:

?S: This variable conditionally defines the HAS_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d_trunc HAS_TRUNC /**/

?H:.

?LINT:set d_trunc

: see if trunc exists

set trunc d_trunc

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2005 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_unsetenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_unsetenv:

?S: This variable conditionally defines the HAS_UNSETENV symbol, which

?S: indicates to the C program that the unsetenv () routine is available.

?S:.

?C:HAS_UNSETENV:

?C: This symbol, if defined, indicates that the unsetenv () routine is

?C: available for use.

?C:.

?H:#\$d_unsetenv HAS_UNSETENV /**/

?H:.

?LINT:set d_unsetenv

: see if unsetenv exists

set unsetenv d_unsetenv

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_unordered: Inlibc

?MAKE: -pick add \$@ %<

?S:d_unordered:

?S: This variable conditionally defines the HAS_UNORDERED symbol, which

?S: indicates to the C program that the unordered() routine is available.

?S:.

?C:HAS_UNORDERED:

?C: This symbol, if defined, indicates that the unordered routine is

?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)

?C:.

?H:#\$d_unordered HAS_UNORDERED /**/

?H:.

?LINT:set d_unordered

: see if unordered exists

set unordered d_unordered

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hypot:

?S: This variable conditionally defines HAS_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d_hypot HAS_HYPOT /**/

?H:.

?LINT:set d_hypot

: see if hypot exists

set hypot d_hypot

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hypot.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_asinh:

?S: This variable conditionally defines the HAS_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d_asinh HAS_ASINH /**/

?H:.

?LINT:set d_asinh

: see if asinh exists

set asinh d_asinh

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U

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?RCS:

?MAKE:d_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_rint:

?S: This variable conditionally defines the HAS_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d_rint HAS_RINT /**/

?H:.

?LINT:set d_rint

: see if rint exists

set rint d_rint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_rint.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lroundl: Inlibc

?MAKE: -pick add \$@ %<
?S:d_roundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#\$d_roundl HAS_LROUNDL /**/
?H:.
?LINT:set d_roundl
: see if lroundl exists
set lroundl d_roundl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_roundl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add \$@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#\$d_isinfl HAS_ISINFL /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U

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?RCS:

?MAKE:d_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log2:

?S: This variable conditionally defines the HAS_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d_log2 HAS_LOG2 /**/

?H:.

?LINT:set d_log2

: see if log2 exists

set log2 d_log2

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_libutil.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_libutil: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_libutil:

?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates

?S: whether a C program should include <libutil.h>.

?S:.

?C:I_LIBUTIL:

?C: This symbol, if defined, indicates that <libutil.h> exists and

?C: should be included.

?C:.

?H:#\$i_libutil I_LIBUTIL /**/

```
?H:
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:
?H:#$i_sysutsname I_SYSUTSNAME /**/
?H:
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysutsname.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
```

?MAKE: -pick add \$@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#\$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.U

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?RCS:

?MAKE:d_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_truncl:

?S: This variable conditionally defines the HAS_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_truncl HAS_TRUNCL /**/
?H:.

?H:.

?LINT:set d_truncl

: see if truncl exists

set truncl d_truncl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_truncl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_mntent.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
```

```
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysvfs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_fstatfs : Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_fstatfs:
```

```
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
```

```
?S: indicates to the C program that the fstatfs() routine is available.
```

```
?S:.
```

```
?C:HAS_FSTATFS:
```

```
?C: This symbol, if defined, indicates that the fstatfs routine is
```

```
?C: available to stat filesystems by file descriptors.
```

```
?C:.
```

```
?H:#$d_fstatfs HAS_FSTATFS /**/
```

```
?H:.
```

```
?LINT:set d_fstatfs
```

```
: see if fstatfs exists
```

```
set fstatfs d_fstatfs
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fstatfs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:i_fp: Inhdr
```

```
?MAKE: -pick add $@ %<
```

?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#\$i_fp I_FP /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add \$@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#\$d_getaddrinfo HAS_GETADDRINFO /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP /**/
?H:.
```

```
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieeefp.U
```

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?RCS:

?MAKE:d_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atanh:

?S: This variable conditionally defines the HAS_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d_atanh HAS_ATANH /**/

?H:.

?LINT:set d_atanh

: see if atanh exists

set atanh d_atanh

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U
```

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?RCS:

?MAKE:d_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llrint:

?S: This variable conditionally defines the HAS_LLRINT symbol, which

?S: indicates to the C program that the llrint() routine is available

?S: to return the long long value closest to a double (according

?S: to the current rounding mode).

?S:
?C:HAS_LLRRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#\$d_llrint HAS_LLRRINT /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#\$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtold_l.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d_exp2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_exp2:

?S: This variable conditionally defines the HAS_EXP2 symbol, which

?S: indicates to the C program that the exp2() routine is available.

?S:.

?C:HAS_EXP2:

?C: This symbol, if defined, indicates that the exp2 routine is

?C: available to do the 2**x function.

?C:.

?H:#\$d_exp2 HAS_EXP2 /**/

?H:.

?LINT:set d_exp2

: see if exp2 exists

set exp2 d_exp2

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getcwd: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getcwd:

?S: This variable conditionally defines the HAS_GETCWD symbol, which

?S: indicates to the C program that the getcwd() routine is available

?S: to get the current working directory.

?S:.

?C:HAS_GETCWD :

?C: This symbol, if defined, indicates that the getcwd routine is

?C: available to get the current working directory.

?C:.

?H:#\$d_getcwd HAS_GETCWD /**/

?H:.

?LINT:set d_getcwd

: see if getcwd exists

set getcwd d_getcwd

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getcwd.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* Original Author: Larry Wall <lwall@netlabs.com>

*

* \$Log: dup2.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:37 ram

* patch16: created

*

*/

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_ftello: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d_ftello:

?S: This variable conditionally defines the HAS_FTELLO symbol, which

?S: indicates to the C program that the ftello() routine is available.

?S:.

?C:HAS_FTELLO:

?C: This symbol, if defined, indicates that the ftello routine is

?C: available to ftell beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d_ftello HAS_FTELLO /**/

```
?H:
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ftello.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_frexp! Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_frexp!:
```

```
?S: This variable conditionally defines the HAS_FREXP! symbol, which
```

```
?S: indicates to the C program that the frexp() routine is available.
```

```
?S:.
```

```
?C:HAS_FREXP!:
```

```
?C: This symbol, if defined, indicates that the frexp routine is
```

```
?C: available to break a long double floating-point number into
```

```
?C: a normalized fraction and an integral power of 2.
```

```
?C:.
```

```
?H:#$d_frexp! HAS_FREXP! /**/
```

```
?H:.
```

```
?LINT:set d_frexp!
```

```
: see if frexp! exists
```

```
set frexp! d_frexp!
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexp!.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand
```

```
?RCS:
```

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?RCS:

?MAKE:d_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d_copysign:

?S: This variable conditionally defines the HAS_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d_copysign HAS_COPYSIGN /**/

?H:.

?LINT:set d_copysign

: see if copysign exists

set copysign d_copysign

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_socks5_init: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socks5_init:

?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which

?S: indicates to the C program that the socks5_init() routine is available.

?S:.

?C:HAS_SOCKS5_INIT:

?C: This symbol, if defined, indicates that the socks5_init routine is

?C: available to initialize SOCKS 5.

?C:.

?H:#\$d_socks5_init HAS_SOCKS5_INIT /**/

?H:.

?LINT:set d_socks5_init

: see if socks5_init exists

set socks5_init d_socks5_init

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socks5_init.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_shadow.U,v \$

?RCS:

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?RCS:

?MAKE:i_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_shadow:

?S: This variable conditionally defines the I_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i_shadow I_SHADOW /**/

?H:.

?LINT:set i_shadow

: see if this is a shadow.h system

set shadow.h i_shadow

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_eaccess: Inlibc

?MAKE: -pick add \$@ %<

?S:d_eaccess:

?S: This variable conditionally defines the HAS_EACCESS symbol, which

?S: indicates to the C program that the eaccess() routine is available.

?S:.

?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#\$d_eaccess HAS_EACCESS /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U

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?RCS:

?MAKE:d_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrint:

?S: This variable conditionally defines the HAS_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrint HAS_LRINT /**/
?H:.

?H:.

?LINT:set d_lrint

: see if lrint exists

set lrint d_lrint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrint.U

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?RCS:

?MAKE:d_fpgetround: Inlibc

?MAKE: -pick add \$@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#\$d_fpgetround HAS_FPGETROUND /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.U

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?RCS:

?MAKE:d_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_ilogb:

?S: This variable conditionally defines the HAS_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d_ilogb HAS_ILOGB /**/
?H:.

?LINT:set d_ilogb

: see if ilogb exists

set ilogb d_ilogb

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1854928199_1701225705.9160655/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U

1.402 json 20231013

1.402.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: org.json

Bnd-LastModified: 1697231681609

Build-Jdk-Spec: 1.8

Bundle-Description: JSON is a light-weight, language independent, data interchange format. See <http://www.JSON.org/> The files in this package implement JSON encoders/decoders in Java. It also includes the capability to convert between JSON and XML, HTTP headers, Cookies, and CDL. This is a reference implementation. There are a large number of JSON packages in Java. Perhaps someday the Java community will standardize on one. Until then, choose carefully.

Bundle-License: <https://github.com/stleary/JSON-java/blob/master/LICENSE>

Bundle-ManifestVersion: 2

Bundle-Name: JSON in Java

Bundle-SymbolicName: json

Bundle-Version: 20231013.0.0

Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: org.json;version="20231013.0.0"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool:

Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1861080799_1701799611.8326457/0/json-20231013-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
```

```
  <modelVersion>4.0.0</modelVersion>
```

```
  <groupId>org.json</groupId>
```

```
  <artifactId>json</artifactId>
```

```
  <version>20231013</version>
```

```
  <packaging>bundle</packaging>
```

```
  <name>JSON in Java</name>
```

```
  <description>
```

```
    JSON is a light-weight, language independent, data interchange format.
```

```
    See http://www.JSON.org/
```

The files in this package implement JSON encoders/decoders in Java. It also includes the capability to convert between JSON and XML, HTTP headers, Cookies, and CDL.

This is a reference implementation. There are a large number of JSON packages in Java. Perhaps someday the Java community will standardize on one. Until then, choose carefully.

```
</description>
<url>https://github.com/douglascrockford/JSON-java</url>

<parent>
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>9</version>
</parent>

<scm>
  <url>https://github.com/douglascrockford/JSON-java.git</url>
  <connection>scm:git:git://github.com/douglascrockford/JSON-java.git</connection>
  <developerConnection>scm:git:git@github.com:douglascrockford/JSON-java.git</developerConnection>
</scm>

<licenses>
  <license>
    <name>Public Domain</name>
    <url>https://github.com/stleary/JSON-java/blob/master/LICENSE</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<developers>
  <developer>
    <name>Douglas Crockford</name>
    <email>douglas@crockford.com</email>
  </developer>
</developers>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.13.2</version>
    <scope>test</scope>
```

```

</dependency>
<dependency>
  <groupId>com.jayway.jsonpath</groupId>
  <artifactId>json-path</artifactId>
  <version>2.1.0</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-core</artifactId>
  <version>4.2.0</version>
  <scope>test</scope>
</dependency>
</dependencies>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>5.1.9</version>
      <extensions>true</extensions>
      <configuration>
        <instructions>

          <Export-Package>
            org.json
          </Export-Package>
          <Bundle-SymbolicName>${project.artifactId}</Bundle-SymbolicName>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.11.0</version>
      <configuration>
        <source>1.8</source>
        <target>1.8</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>3.3.0</version>
      <executions>
        <execution>
          <id>attach-sources</id>

```

```

        <goals>
            <goal>jar-no-fork</goal>
        </goals>
    </execution>
</executions>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-javadoc-plugin</artifactId>
    <version>3.5.0</version>
    <executions>
        <execution>
            <id>attach-javadocs</id>
            <goals>
                <goal>jar</goal>
            </goals>
            <configuration>
                <additionalparam>-Xdoclint:none</additionalparam>
            </configuration>
        </execution>
    </executions>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-gpg-plugin</artifactId>
    <version>1.6</version>
    <executions>

        <execution>
            <id>sign-artifacts</id>
            <phase>verify</phase>
            <goals>
                <goal>sign</goal>
            </goals>
            <configuration>
                <gpgArguments>
                    <arg>--pinentry-mode</arg>
                    <arg>loopback</arg>
                </gpgArguments>
            </configuration>
        </execution>
    </executions>
</plugin>
<plugin>
    <groupId>org.sonatype.plugins</groupId>
    <artifactId>nexus-staging-maven-plugin</artifactId>
    <version>1.6.3</version>
    <extensions>>true</extensions>

```

```

    <configuration>
      <serverId>ossrh</serverId>
      <nexusUrl>https://oss.sonatype.org/</nexusUrl>
      <autoReleaseAfterClose>>false</autoReleaseAfterClose>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <version>3.3.0</version>
    <configuration>
      <archive>
        <manifestEntries>
          <Automatic-Module-Name>org.json</Automatic-Module-Name>
        </manifestEntries>
      </archive>
    </configuration>
  </plugin>
</plugins>
</build>
</project>

```

Found in path(s):

* /opt/cola/permits/1861080799_1701799611.8326457/0/json-20231013-jar/META-INF/maven/org.json/json/pom.xml

1.403 tar 1.30+dfsg-7ubuntu0.20.04.4

1.403.1 Available under license :

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Version 3, 29 June 2007

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The

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1.404 metrics-core 4.1.0

1.404.1 Available under license :

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1.405 pam 1.3.1-5ubuntu4.7

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1.406 base-files 11ubuntu5.8

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Version 3, 29 June 2007

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```
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program `Gnomovision' (a program to direct compilers to make passes
```

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<signature of Ty Coon>, 1 April 1989
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```

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The End

1.407 zstd-jni 1.5.2-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd_jni

Bnd-LastModified: 1642851452470

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM 1a

nguages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;descripti

on=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: darwin/x86_64/libzstd-jni-1.5.2-1.dylib;osname=MacO

S;osname=MacOSX;processor=x86_64, darwin/aarch64/libzstd-jni-1.5.2-1.

dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/lib

zstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libz

std-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzs

td-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd

-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1

.5.2-1.so;osname=Linux;processor=arm,

linux/i386/libzstd-jni-1.5.2-1.

so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;o

sname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osna

me=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname

=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=L

inux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;

processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;process

or=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.5.2.1

Created-By: 11.0.14 (Debian)

Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.lub

en.zstd.util;version="1.5.2.1"

Implementation-Title: zstd-jni

Implementation-Vendor: com.github.luben

Implementation-Vendor-Id: com.github.luben

Implementation-Version: 1.5.2-1

Import-Package: org.osgi.framework;resolution:=optional

Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.

ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86_64,darwin.aar

ch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=11.0))

"

Specification-Title: zstd-jni

Specification-Vendor: com.github.luben

Specification-Version: 1.5.2-1

Tool: Bnd-4.0.0.201805111645

Found in path(s):

* /opt/cola/permits/1891228067_1705939701.7854912/0/zstd-jni-1-5-2-1-5-jar/META-INF/MANIFEST.MF

1.408 systemd 245.4-4ubuntu3.23

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```

```
<signature of Ty Coon>, 1 April 1989  
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1.409 Iz4-java 1.8.0

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1.410 jsch 0.1.42

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* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/HostKeyRepository.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/GSSContext.java

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* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/AES256CBC.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/AES192CBC.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelSubsystem.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/AES128CBC.java

*

```
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/RequestSubsystem.java
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* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/jce/ARCFOUR.java
```

```
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/jce/ARCFOUR128.java
```

```
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/jce/TripleDESCTR.java
```

```
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/jce/AES128CTR.java
```

```
*
```

```
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/jce/AES192CTR.java
```

```
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-  
jar/com/jcraft/jsch/jce/AES256CTR.java
```

```
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
```

jar/com/jcraft/jsch/jce/ARCFOUR256.java

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* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestAgentForwarding.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelAgentForwarding.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jcraft/HMAC.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jcraft/HMACMD5.java

*

/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Logger.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jcraft/HMACMD596.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jgss/GSSContextKrb5.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-

```
jar/com/jcraft/jsch/jcraft/HMACSHA1.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/jcraft/HMACSHA196.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/ProxySOCKS4.java
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```
*/
```

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```
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Packet.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/jce/BlowfishCBC.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelSftp.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Channel.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/jce/SignatureDSA.java
*
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Random.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Cipher.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/DHGEX.java
```

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelExec.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/HMACSHA1.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/UserAuthNone.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestSignal.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/SftpATTRS.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/SftpProgressMonitor.java
 *
 /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/SignatureRSA.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Util.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/SftpException.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/TripleDESCBC.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/CipherNone.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestX11.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/MAC.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestWindowChange.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelForwardedTCPIP.java
 *
 /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/SignatureDSA.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/JSchPartialAuthException.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestExec.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Session.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/SHA1.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/MD5.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/JSchException.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestEnv.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/KeyPairGenRSA.java
 *
 /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ForwardedTCPIPDaemon.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/JSchAuthCancelException.java
 * /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/KeyPairGenDSA.java

* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/UserInfo.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/UserAuthKeyboardInteractive.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/KnownHosts.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/DH.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Buffer.java
*
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelSession.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/PortWatcher.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/Random.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/JSch.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/HASH.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/KeyPair.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/HMACMD5.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/HMACMD596.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelDirectTCPIP.java
*
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/UserAuthPassword.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/IO.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/HMACSHA196.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Compression.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/KeyExchange.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/DH.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ProxyHTTP.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/KeyPairGenDSA.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ServerSocketFactory.java
*
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/ChannelX11.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/IdentityFile.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/UIKeyboardInteractive.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jce/SignatureRSA.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/jcraft/Compression.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Request.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-

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jar/com/jcraft/jsch/RequestPtyReq.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/RequestSftp.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/HostKey.java
*
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/SocketFactory.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/KeyPairRSA.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/UserAuth.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/UserAuthPublicKey.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Proxy.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/ProxySOCKS5.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/KeyPairDSA.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/ChannelShell.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/Identity.java
*
/opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/KeyPairGenRSA.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-
jar/com/jcraft/jsch/RequestShell.java
* /opt/cola/permits/1910827835_1708113041.9950242/0/jsch-0-1-42-sources-3-jar/com/jcraft/jsch/DHG1.java

```

1.411 shadow 4.8.1-1ubuntu5.20.04.5

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```
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```

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```
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```

1.417 jedis 5.1.2

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Manifest-Version: 1.0

Bundle-Description: Jedis is a blazingly small and sane Redis java client.

Automatic-Module-Name: redis.clients.jedis

Bundle-License: <https://github.com/redis/jedis/blob/master/LICENSE>

Bundle-SymbolicName: redis.clients.jedis

Bnd-LastModified: 1709723810918

Bundle-ManifestVersion: 2

Import-Package: com.google.gson;version="[2.10,3)",io.github.resilience4j.circuitbreaker;resolution:=optional,io.github.resilience4j.circuitbreaker.event;resolution:=optional,io.github.resilience4j.core;resolution:=optional,io.github.resilience4j.decorators;resolution:=optional,io.github.resilience4j.retry;resolution:=optional,io.github.resilience4j.retry.event;resolution:=optional,javax.net.ssl,org.apache.commons.pool2;version="[2.12,3)",org.apache.commons.pool2.impl;version="[2.12,3)",org.json;version="[20231013.0,20231014)",org.slf4j;version="[1.7,2)",redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.bloom,redis.clients.jedis.bloom.commands,redis.clients.jedis.commands,redis.clients.jedis.exceptions,redis.clients.jedis.executors,redis.clients.jedis.gears,redis.clients.jedis.gears.resps,redis.clients.jedis.graph,redis.clients.jedis.graph.entities,redis.clients.jedis.json,redis.clients.jedis.json.commands,redis.clients.jedis.mcf,redis.clients.jedis.params,redis.clients.jedis.providers,redis.clients.jedis.resps,redis.clients.jedis.search,redis.clients.jedis.search.aggr,redis.clients.jedis.search.schemafields,redis.clients.jedis.timereseries,redis.clients.jedis.util

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Export-Package: redis.clients.jedis;uses:="io.github.resilience4j.circuitbreaker,javax.net.ssl,org.apache.commons.pool2,org.apache.commons.pool2.impl,org.json,redis.clients.jedis.args,redis.clients.jedis.bloom,redis.clients.jedis.commands,redis.clients.jedis.exceptions,redis.clients.jedis.executors,redis.clients.jedis.gears,redis.clients.jedis.gears.resps,redis.clients.jedis.graph,redis.clients.jedis.json,redis.clients.jedis.params,redis.clients.jedis.providers,redis.clients.jedis.resps,redis.clients.jedis.search,redis.clients.jedis.search.aggr,redis.clients.jedis.search.schemafields,redis.clients.jedis.timeseries,redis.clients.jedis.util";version="5.1.2",redis.clients.jedis.args;version="5.1.2",redis.clients.jedis.bloom;uses:="redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.commands,redis.clients.jedis.params";version="5.1.2",redis.clients.jedis.bloom.commands;uses:="redis.clients.jedis,redis.clients.jedis.bloom";version="5.1.2",redis.clients.jedis.commands;uses:="redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.bloom.commands,redis.clients.jedis.exceptions,redis.clients.jedis.gears,redis.clients.jedis.graph,redis.clients.jedis.json.commands,redis.clients.jedis.params,redis.clients.jedis.resps,redis.clients.jedis.search,redis.clients.jedis.timeseries,redis.clients.jedis.util";version="5.1.2",redis.clients.jedis.exceptions;uses:="redis.clients.jedis";version="5.1.2",redis.clients.jedis.executor;uses:="redis.clients.jedis,redis.clients.jedis.providers";version="5.1.2",redis.clients.jedis.gears;uses:="redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.commands,redis.clients.jedis.gears.resps,redis.clients.jedis.params";version="5.1.2",redis.clients.jedis.gears.resps;uses:="redis.clients.jedis";version="5.1.2",redis.clients.jedis.graph;uses:="redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.commands,redis.clients.jedis.params,redis.clients.jedis.providers";version="5.1.2",redis.clients.jedis.graph.entities;version="5.1.2",redis.clients.jedis.json;uses:="org.json,redis.clients.jedis,redis.clients.jedis.commands,redis.clients.jedis.params";version="5.1.2",redis.clients.jedis.json.commands;uses:="org.json,redis.clients.jedis,redis.clients.jedis.json";version="5.1.2",redis.clients.jedis.mcf;uses:="io.github.resilience4j.circuitbreaker,redis.clients.jedis,redis.clients.jedis.executors,redis.clients.jedis.graph,redis.clients.jedis.providers,redis.clients.jedis.util";version="5.1.2",redis.clients.jedis.params;uses:="redis.clients.jedis,redis.clients.jedis.args";version="5.1.2",redis.clients.jedis.providers;uses:="io.github.resilience4j.circuitbreaker,io.github.resilience4j.retry,org.apache.commons.pool2,org.apache.commons.pool2.impl,redis.clients.jedis,redis.clients.jedis.util";version="5.1.2",redis.clients.jedis.resps;uses:="redis.clients.jedis";version="5.1.2",redis.clients.jedis.search;uses:="redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.commands,redis.clients.jedis.params,redis.clients.jedis.providers,redis.clients.jedis.resps,redis.clients.jedis.search.aggr,redis.clients.jedis.search.schemafields,redis.clients.jedis.util";version="5.1.2",redis.clients.jedis.search.aggr;uses:="redis.clients.jedis,redis.clients

```
.jedis.params,redis.clients.jedis.providers,redis.clients.jedis.searc
h,redis.clients.jedis.util";version="5.1.2",redis.clients.jedis.searc
h.querybuilder;uses:="redis.clients.jedis,redis.clients.jedis.args";v
ersion="5.1.2",redis.clients.jedis.search.schemafields;uses:="redis.c
lients.jedis,redis.clients.jedis.params,redis.clients.jedis.search";v
ersion="5.1.2",redis.clients.jedis.timeseries;uses:="redis.clients.je
dis,redis.clients.jedis.args,redis.clients.jedis.commands,redis.clien
ts.jedis.params,redis.clients.jedis.util";version="5.1.2",redis.clien
ts.jedis.util;uses:="org.apache.commons.pool2,org.apache.commons.pool
2.impl,redis.clients.jedis,redis.clients.jedis.args,redis.clients.jed
is.exceptions,redis.clients.jedis.providers";version="5.1.2"
```

Bundle-Name: Jedis

Bundle-Version: 5.1.2

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin 5.1.9

Found in path(s):

* /opt/cola/permits/1971593477_1712903632.2625072/0/jedis-5-1-2-jar/META-INF/MANIFEST.MF

1.418 everit-json-schema 1.14.4

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* /opt/cola/permits/1972410806_1712945439.4841938/0/everit-json-schema-1-14-4-sources-jar/META-INF/maven/com.github.erosb/everit-json-schema/pom.xml

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Found in path(s):

* /opt/cola/permits/1972410806_1712945439.4841938/0/everit-json-schema-1-14-4-sources-jar/org/everit/json/schema/internal/JSONWriter.java

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Found in path(s):

* /opt/cola/permits/1972410806_1712945439.4841938/0/everit-json-schema-1-14-4-sources-jar/org/everit/json/schema/JSONPointer.java

* /opt/cola/permits/1972410806_1712945439.4841938/0/everit-json-schema-1-14-4-sources-jar/org/everit/json/schema/JSONPointerException.java

1.419 objenesis 3.2

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1.420 gnutls 3.6.13-2ubuntu1.11

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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1.421 activation-api 1.2.2

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xwd v1.0.7

xwd utility

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```
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## WebKit Open Source Project: WebKit v606.1

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rt/modules/javafx.web/src/main/native/
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\* /opt/cola/permits/2002264690\_1714712542.8493288/0/isorelax-20090621-sources-5-jar/org/iso\_relax/dispatcher/impl/DispatcherImpl.java

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jar/org/iso\_relax/dispatcher/IslandSchema.java

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\* /opt/cola/permits/2002264690\_1714712542.8493288/0/isorelax-20090621-sources-5-

# 1.425 servlet-api 3.1.0

## 1.425.1 Available under license :

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Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <<https://download.gnome.org/sources/glib/>>.

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\* /opt/cola/permits/2011416164\_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-jar/com/amazonaws/services/kms/model/transform/VerifyResultJsonUnmarshaller.java

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jar/com/amazonaws/services/kms/model/KMSInvalidSignatureException.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/InvalidAliasNameExceptionUnmarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/NotFoundExceptionUnmarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/PutKeyPolicyRequestProtocolMarshaller.java
*
/opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/GetPublicKeyResult.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/CreateKeyResultJsonUnmarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/ConnectCustomKeyStoreRequest.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/ListGrantsResultJsonUnmarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/GenerateDataKeyPairWithoutPlaintextRequestMarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/GenerateDataKeyPairRequest.java
*
/opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/TagMarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/transform/DeleteAliasResultJsonUnmarshaller.java
* /opt/cola/permits/2011416164_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-
jar/com/amazonaws/services/kms/model/ListKeysRequest.java
No license file was found, but licenses were detected in source scan.

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*
```

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\*  
\* <http://aws.amazon.com/apache2.0>  
\*  
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WARRANTIES OR  
\* CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing  
permissions  
\* and limitations under the License.

\*/

/\*\*

\* <p>

\* Identifies the KMS key for the grant. The grant gives principals permission to use this KMS key.

\* </p>

\* <p>

\* Specify the key ID or key ARN of the KMS key. To specify a KMS key in a different Amazon Web Services  
account,

\* you must use the key ARN.

\* </p>

\* <p>

\* For example:

\* </p>

\* <ul>

\* <li>

\* <p>

\* Key ID: `1234abcd-12ab-34cd-56ef-1234567890ab`

\* </p>

\* </li>

\* <li>

\* <p>

\* Key ARN: `arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-1234567890ab`

\* </p>

\* </li>

\* </ul>

\* <p>

\* To get the key ID and key ARN for a KMS key, use `ListKeys` or `DescribeKey`.

\* </p>

\*/

/\*\*

\* <p>

\* The principal that has permission to use the `RetireGrant` operation to retire the grant.

\* </p>

\* <p>

\* To specify the principal, use the `<a`

\* `href="https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html">Amazon Resource Name  
(ARN)</a>`

\* of an Amazon Web Services principal. Valid Amazon Web Services principals include Amazon Web Services accounts

- \* (root), IAM users, federated users, and assumed role users. For examples of the ARN syntax to use for specifying
- \* a principal, see [a principal](https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html#arn-syntax-iam), see [Amazon Web Services Identity and Access Management \(IAM\)](https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html#arn-syntax-iam) in the Example ARNs section of the *Amazon Web Services General Reference*.

\* `</p>`

\* `<p>`

- \* The grant determines the retiring principal. Other principals might have permission to retire the grant or revoke the grant. For details, see [RevokeGrant](https://docs.aws.amazon.com/kms/latest/developerguide/grant-manage.html#grant-delete) and [Retiring and revoking grants](https://docs.aws.amazon.com/kms/latest/developerguide/grant-manage.html#grant-delete) in the *Key Management Service Developer Guide*.

\* `</p>`

\*/

/\*\*

- \* `<p>`
- \* Identifies the KMS key for the grant. The grant gives principals permission to use this KMS key.

\* `</p>`

- \* `<p>`
- \* Specify the key ID or key ARN of the KMS key. To specify a KMS key in a different Amazon Web Services account, you must use the key ARN.

\* `</p>`

- \* `<p>`
- \* For example:

- \* `</p>`
- \* `<ul>`
- \* `<li>`
- \* `<p>`
- \* Key ID: `<code>1234abcd-12ab-34cd-56ef-1234567890ab</code>`
- \* `</p>`
- \* `</li>`
- \* `<li>`
- \* `<p>`
- \* Key ARN: `<code>arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-1234567890ab</code>`
- \* `</p>`
- \* `</li>`
- \* `</ul>`
- \* `<p>`
- \* To get the key ID and key ARN for a KMS key, use [ListKeys](#) or [DescribeKey](#).
- \* `</p>`
- \* `</ul>`
- \* `</p>`
- \* `@param keyId`

```

* Identifies the KMS key for the grant. The grant gives principals permission to use this KMS key.</p>
* <p>
* Specify the key ID or key ARN of the KMS key. To specify a KMS key in a different Amazon Web
Services
* account, you must use the key ARN.
* <p>
* <p>
* For example:
* <p>
*
*
* <p>
* Key ID: <code>1234abcd-12ab-34cd-56ef-1234567890ab</code>
* <p>
*

*
* <p>
* Key ARN: <code>arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-
1234567890ab</code>
* <p>
*
*
* <p>
* To get the key ID and key ARN for a KMS key, use <a>ListKeys or <a>DescribeKey.
*/
/**
* <p>
* Identifies the KMS key for the grant. The grant gives principals permission to use this KMS key.
* <p>
* <p>
* Specify the key ID or key ARN of the KMS key. To specify a KMS key in a different Amazon Web Services
account,
* you must use the key ARN.
* <p>
* <p>
* For example:
* <p>
*
*
* <p>
* Key ID: <code>1234abcd-12ab-34cd-56ef-1234567890ab</code>
* <p>
*
*
* <p>
* Key ARN: <code>arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-1234567890ab</code>
* <p>

```

```

*
*
* <p>
* To get the
key ID and key ARN for a KMS key, use <a>ListKeys or <a>DescribeKey.
* </p>
*
* @return Identifies the KMS key for the grant. The grant gives principals permission to use this KMS key.</p>
* <p>
* Specify the key ID or key ARN of the KMS key. To specify a KMS key in a different Amazon Web
Services
* account, you must use the key ARN.
* </p>
* <p>
* For example:
* </p>
*
*
* <p>
* Key ID: <code>1234abcd-12ab-34cd-56ef-1234567890ab</code>
* </p>
*
*
* <p>
* Key ARN: <code>arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-
1234567890ab</code>
* </p>
*
*
* <p>
* To get the key ID and key ARN for a KMS key, use <a>ListKeys or <a>DescribeKey.

*/
/**
* <p>
* The principal that has permission to use the <a>RetireGrant operation to retire the grant.
* </p>
* <p>
* To specify the principal, use the <a
* href="https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html">Amazon Resource Name
(ARN)
* of an Amazon Web Services principal. Valid Amazon Web Services principals include Amazon Web Services
accounts
* (root), IAM users, federated users, and assumed role users. For examples of the ARN syntax to use for
specifying
* a principal, see <a
* href="https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html#arn-syntax-iam">Amazon
Web

```

\* [Services Identity and Access Management \(IAM\)](#) in the Example ARNs section of the [Amazon Web Services](#)

\* [General Reference](#).

</p>

<p>

\* The grant determines the retiring principal. Other principals might have permission to retire the grant or revoke the grant. For details, see [RevokeGrant](#) and [Retiring and revoking grants](#) in the [Key Management Service Developer Guide](#).

</p>

\*

\* @param retiringPrincipal

\* The principal that has permission to use the [RetireGrant](#) operation to retire the grant. </p>

<p>

\* To specify the principal, use the [Amazon Resource Name \(ARN\)](#) of an Amazon Web Services principal. Valid Amazon Web Services principals include Amazon Web Services accounts (root), IAM users, federated users, and assumed role users. For examples of the ARN syntax to use for specifying a principal, see [Amazon Resource Name \(ARN\)](#) of an Amazon Web Services principal. Valid Amazon Web Services principals include Amazon Web Services accounts (root), IAM users, federated users, and assumed role users. For examples of the ARN syntax to use for

\* [Web Services Identity and Access Management \(IAM\)](#) in the Example ARNs section of the [Amazon Web Services](#)

\* [General Reference](#).

</p>

<p>

\* The grant determines the retiring principal. Other principals might have permission to retire the grant or revoke the grant. For details, see [RevokeGrant](#) and [Retiring and revoking grants](#) in the [Key Management Service Developer Guide](#).

\*/

/\*\*

\* <p>

\* The principal that has permission to use the [RetireGrant](#) operation to retire the grant.

\* </p>

\* <p>

\* To specify the principal, use the [Amazon Resource Name \(ARN\)](#)

\* of an Amazon Web Services principal. Valid Amazon Web Services principals include Amazon Web Services accounts

\* (root), IAM users, federated users, and assumed role users. For examples of the ARN syntax to use for

specifying

\* a principal, see <a

\* href="https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html#arn-syntax-iam">Amazon

Web

\* Services Identity and Access Management (IAM)</a> in the Example ARNs section of the <i>Amazon Web

Services

\* General Reference</i>.

\* </p>

\* <p>

\* The grant determines the retiring principal. Other principals might have permission to retire the grant or revoke

\* the grant. For details, see <a>RevokeGrant</a> and <a

\* href="https://docs.aws.amazon.com/kms/latest/developerguide/grant-manage.html#grant-delete">Retiring and

revoking

\* grants</a> in the <i>Key Management Service Developer Guide</i>.

\* </p>

\*

\* @return The principal that has permission to use the <a>RetireGrant</a> operation to retire the grant. </p>

\* <p>

\*

To specify the principal, use the <a

\* href="https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html">Amazon Resource

Name

\* (ARN)</a> of an Amazon Web Services principal. Valid Amazon Web Services principals include

Amazon Web

\* Services accounts (root), IAM users, federated users, and assumed role users. For examples of the ARN

\* syntax to use for specifying a principal, see <a

\* href="https://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html#arn-syntax-

iam">Amazon

\* Web Services Identity and Access Management (IAM)</a> in the Example ARNs section of the

<i>Amazon Web

\* Services General Reference</i>.

\* </p>

\* <p>

\* The grant determines the retiring principal. Other principals might have permission to retire the grant

\* or revoke the grant. For details, see <a>RevokeGrant</a> and <a

\* href="https://docs.aws.amazon.com/kms/latest/developerguide/grant-manage.html#grant-delete">Retiring

and

\* revoking grants</a> in the <i>Key Management Service Developer Guide</i>.

\*/

Found in path(s):

\* /opt/cola/permits/2011416164\_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-jar/com/amazonaws/services/kms/model/CreateGrantRequest.java

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permissions  
\* and limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/2011416164\_1715835329.9933608/0/aws-java-sdk-kms-1-12-135-sources-  
jar/com/amazonaws/auth/policy/actions/KMSActions.java

## 1.428 aws-java-sdk-s3 1.12.135

### 1.428.1 Available under license :

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```
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*
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* on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
* express or implied. See the License for the specific language governing
* permissions and limitations under the License.
*/
/**
* Synchronous client for accessing Amazon S3.
*
* <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
*
* <h2>Introduction</h2>
* <p>
* This appendix summarizes the current crypto related meta information
* associated with an S3 object encrypted using SDK client-side encryption. In
* SDK's terminology, these meta
```

information are classified as "user metadata".

- \* In general, the meta information is just a map of key/value pairs. Physically
- \* they are persisted either as metadata of the encrypted S3 object, or as a
- \* separate S3 object called an "instruction file" (which is just a JSON file in
- \* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
- \* such as `"AES/GCM/NoPadding"`, please refer to Oracle's <http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html>
- \* `>Java&trade; Cryptography Architecture Standard Algorithm Name Documentation</a>`
- \* for more details.

\*

## \* `<h2>S3 metadata vs instruction file</h2>`

\* `<p>`

- \* Note when a key/value pair is stored as "user metadata" as part of the S3
- \* metadata, the SDK always adds an additional prefix of `<b>x-amz-meta-</b>` to
- \* the key name. In contrast, the SDK doesn't add any prefix when the key names
- \* are stored in an instruction file. (The reason has to do with
- how the http
- \* headers are handled.)

\* `<p>`

- \* For example, `<b>x-amz-key</b>` would get stored as `<b>x-amz-meta-x-amz-key</b>`
- \* in S3 metadata. In contrast, `<b>x-amz-key</b>` would simply be stored as is
- \* (ie without the prefix) in an instruction file. All the keys described below
- \* are considered "user metadata" by the SDK.

\*

## \* `<h2>S3 1st gen crypto meta information</h2>`

\* `<p>`

- \* For non-KMS client side encryption, this crypto meta information is used
- \* to support the "Encryption Only" crypto mode (which involves the use of
- \* `<code>AES/CBC/PKCS5Padding</code>` for content encryption, and
- \* `<code>AES/ECB</code>` for encrypting the one-time randomly generated data
- \* key). For KMS client-side encryption, the 2nd gen crypto meta information is used.

### \* `<h3>Scope</h3>`

- \* This metadata can only be generated when encrypting using the V1 encryption client,
- \* `{ @link com.amazonaws.services.s3.AmazonS3EncryptionClient }`, but can be interpreted (decrypted) by
- \* `{ @link com.amazonaws.services.s3.AmazonS3EncryptionClientV2 }`.

- \* The format is also known as v1 metadata, but because there are now v1 and v2 clients,
- \* the term v1 metadata is confusing.

\* `<p>`

\* `<b>Encryption:</b> { @link com.amazonaws.services.s3.AmazonS3EncryptionClient }, crypto mode EncryptionOnly<br>`

\* `<b>Decryption:</b> { @link com.amazonaws.services.s3.AmazonS3EncryptionClient }, crypto mode EncryptionOnly or`

\* `{ @link com.amazonaws.services.s3.AmazonS3EncryptionClientV2 }, crypto mode AuthenticationOnly`

\* `<p>`

### \* `<h3>Metadata</h3>`

\* `<table border=1>`

\* `<tr aligned="left">`

\* `<th>key</th>`

```

* <th>description</th>
* </tr>
* <tr>
* <td width="200">x-amz-key</td>
* <td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek
* is randomly generated per S3 object, and is always an AES 256-bit key. The
* corresponding cipher is always "AES/CBC/PKCS5Padding".</td>
* </tr>
* <tr>
* <td>x-amz-iv</td>
* <td>Randomly generated IV (per S3 object), base64 encoded</td>
* </tr>
* <tr>
* <td>x-amz-matdesc </td>
* <td>Customer provided material description in JSON (UTF8) format. Used to
* identify the client-side master key (ie used to encrypt/wrap the generated
* content encrypting key).</td>
* </tr>
* <tr>
* <td>x-amz-unencrypted-content-length</td>
* <td>Unencrypted content length (optional but should be specified whenever
* possible).</td>
* </tr>
* </table>
* <p>
* <h2>S3 2nd gen crypto meta information</h2>
* <p>
* This crypto meta information is used to support both authenticated
* encryption (which involves the use of <code>AES/GCM/NoPadding</code> for
* content encryption, and key wrapping for the one-time randomly generated data
* key), and KMS client-side encryption (which can either be encryption-only or
* authenticated encryption).
* <h3>Scope</h3>
* 2nd gen metadata can be generated/encrypted by both the V1 and V2 encryption clients.
* The format is also known as v2 metadata, but this is confusing since the
* V1 client also generates
* 2nd gen metadata in the AuthenticatedEncryption and StrictAuthenticatedEncryption modes.
* <p>
* Encryption: { @link com.amazonaws.services.s3.AmazonS3EncryptionClient}/
* { @link com.amazonaws.services.s3.AmazonS3EncryptionClient}, crypto modes AuthenticatedEncryption and
* StrictAuthenticatedEncryption

* Decryption: { @link com.amazonaws.services.s3.AmazonS3EncryptionClient}, all crypto modes, or
* { @link com.amazonaws.services.s3.AmazonS3EncryptionClientV2}, crypto modes AuthenticatedEncryption and
* StrictAuthenticatedEncryption.
* <p>
* Note:
* While the V1 client can both generate and interpret 2nd gen metadata, it cannot decrypt any object encrypted
* using the V2 client, because the values of x-amz-wrap-alg differ.

```

```

* <p>
* <h3>Metadata used the same way by V1 and V2 clients</h3>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200">x-amz-key-v2</td>
* <td>CEK in key wrapped form. This is necessary so that the S3 encryption
* client that doesn't recognize the v2 format will not mistakenly decrypt S3
* object encrypted in v2 format.</td>
* </tr>
* <tr>
* <td>x-amz-iv</td>
* <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
* </tr>
* <td>x-amz-unencrypted-content-length</td>
* <td>Unencrypted content length. (optional but should be specified whenever
* possible. Same as v1.)</td>
* </tr>
* <tr>
* <td>x-amz-tag-len</td>
* <td>Tag length (in bits) when AEAD is in use.
*
* Only applicable if AEAD is in use. This meta information is absent
* otherwise, or if KMS is in use.
* Supported value: <code>"128"</code>
*
* </td>
* </tr>
* </table>
* <h3>Metadata using V1 client</h3>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <td>x-amz-matdesc</td>
* <td>Customer provided material
description in JSON format. (Same as v1). Used
* to identify the client-side master key.
*
* For KMS client side encryption, the KMS Customer Master Key ID is stored
* as part of the material description, x-amz-matdesc, under the key-name
* <code>"kms_cmk_id"</code>.
*
* </td>

```

```

* </tr>
* <tr>
* <td>x-amz-wrap-alg</td>
* <td>Key wrapping algorithm used.
*
* Supported values:
* <code>"AESWrap", "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"</code>
* No standard key wrapping is used if this meta information is absent
* Always set to "kms" if KMS is used for client-side encryption
*
* </td>
* </tr>
* <tr>
* <td>x-amz-cek-alg</td>
* <td>Content encryption algorithm used.
*
* Supported values:
* <code>"AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"</code>
* Default to <code>"AES/CBC/PKCS5Padding"</code> if this key is absent.
*
* </td>
* </tr>
* </table>
* <h3>Metadata using V2 client</h3>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td>x-amz-matdesc</td>
* <td>Customer provided material description in JSON format. (Same as v1). For KMS client side encryption,
* the cek algorithm is stored as part of the material description under the key-name <code>aws:x-amz-cek-
alg</code>.
* </td>
* </tr>
* <tr>
* <td>x-amz-wrap-alg</td>
* <td>Key wrapping algorithm used.
*
* Supported values:
* <code>"AES/GCM/NoPadding" (symmetric default), "RSA-OAEP-SHA1", "RSA-OAEP-SHA1" (asymmetric
default), "kms"</code>
*
* No standard key wrapping is used if this meta information is absent
* Always set to "kms" if KMS is used for client-side encryption
*
* </td>

```

```

* </tr>
* <tr>
* <td>x-amz-cek-alg</td>
* <td>Content encryption algorithm used. Supported values: <code>"AES/GCM/NoPadding"</code>
* </td>
* </tr>
*

```

```
</table>
```

```

* <p>
* <h3>KMS Integration for client-side encryption</h3>

```

- ```

* <ol>
* <li>All client-side KMS protected S3 objects are stored in v2 crypto meta information
* format. However, the key wrapping algorithm, <b>x-amz-wrap-alg</b> is always
* set to <b>"kms"</b>.</li>
* <li>For V1 clients, the KMS Customer Master Key ID is currently stored as part of the
* material description, <b>x-amz-matdesc</b>, under the key-name
* <b>"kms_cmk_id"</b>.</li>
* <li>For V2 clients, the KMS Customer Master Key ID is <b>not</b> stored as part of the
* material description and must be supplied by the decrypting client.</li>

```

```

* </ol>
* <p>
* <h4>Sample S3 crypto meta information for KMS client-side encryption</h4>

```

```

* <p>
* <h5>V1 client, CryptoMode: EncryptionOnly</h5>

```

```
*
```

```
* <pre>
```

```
* x-amz-meta-x-amz-key-v2:
```

```
*
```

```

CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSib3DQEHBqBvMG0CAQAwaAYJKoZlIhvcNAQcBMB4GCWCGSAFl
AwQBLjARBAyD0rzN3KHViWixDVcCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVYIC/PKlchALvG1oVLnf86m
cZJNpTXtwMkKkDocVj3Z1zGjZTufFsOH

```

```
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
```

```
* x-amz-unencrypted-content-length: 32768
```

```
* x-amz-cek-alg: AES/CBC/PKCS5Padding
```

```
* x-amz-wrap-alg: kms
```

```
* x-amz-matdesc: { "kms_cmk_id": "d3fd2273-4ca0-4da5-b1c2-c89742ec6a26" }
```

```
* </pre>
```

```
*
```

```
* <h5>V1 client, CryptoMode: AuthenticatedEncryption/StrictAuthenticatedEncryption</h5>
```

```
*
```

```
* <pre>
```

```
* x-amz-key-v2:
```

```

CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSib3DQEHBqBvMG0CAQAwaAYJKoZlIhvcNAQcBMB4GCWCGSAFl
AwQBLjARBAytFVyW4I6QmwcPK1ECARCAO1VzoM6KxA9DHyNMm/BEbbjle2vLA7IY7f9OkUoSqr dxgKxp
NID9QaL/7928m1Djtd0bJpHefjm89C

```

```
* x-amz-iv: VZBksyij6DhrUMye
```

```

* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* x-amz-tag-len: 128
* </pre>
*
* <h5>V2 client, CryptoMode: AuthenticatedEncryption/StrictAuthenticatedEncryption</h5>
*
* <pre>
* x-amz-key-v2:
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSIB3DQEHBqBvMG0CAQAWaAYJKoZlIhvcNAQcBMB4GCWCGSAFl
AwQBLjARBAytFVyW4I6QmwcPK1ECARCAO1VzoM6KxA9DHyNMm/BEbbjle2vLA7IY7f9OkUoSqrxdgKXp
NID9QaL/7928m1Djtd0bJpHefjm89C
* x-amz-iv: VZBksyij6DhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"aws:x-amz-cek-alg":"AES/GCM/NoPadding"}
* x-amz-tag-len: 128
* </pre>
*
* <h2>S3 metadata of an instruction file</h2>
* <p>
* The following key is always included as part of the S3 metadata of the
* instruction file (which is just an S3 object). Since the SDK treats this key
* as "user metadata", the key name is always prefixed with <b>x-amz-meta-</b>
* when physically stored.
* <p>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td
width="200"><b>x-amz-crypto-instr-file</b></td>
* <td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object).</td>
* </tr>
* </table>
*/

```

Found in path(s):

```

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/package-info.java

```

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```
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectTaggingResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/Tag.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/DeleteObjectTaggingRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectTaggingRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/S3AccelerateUnsupported.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectTaggingRequest.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/ObjectTaggingXmlFactory.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/S3VersionResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/DeleteObjectTaggingResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/DeleteObjectTaggingHeaderHandler.java
```

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3RequesterChargedHeaderHandler.java

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Found in path(s):

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/S3Object.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SelectObjectContentEventStream.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ObjectLockLegalHold.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-

jar/com/amazonaws/services/s3/transfer/internal/AbstractDownloadCallable.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PresignedUrlDownloadConfig.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ObjectLockMode.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/DefaultRetention.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SelectRecordsInputStream.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectRetentionResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectRetentionResult.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/RequestProgress.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/JSONType.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectLegalHoldResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectLockConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/Progress.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PresignedUrlDownloadRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ObjectLockRule.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectLockConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/Stats.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectLegalHoldRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/UploadObjectStrategy.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectLegalHoldRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ParquetInput.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SelectObjectContentRequest.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PresignedUrlDownloadResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-

jar/com/amazonaws/services/s3/model/JSONOutput.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/SelectObjectContentEventException.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/transfer/internal/PresignUrlDownloadCallable.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/internal/XmlWriterUtils.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/SelectObjectContentEventVisitor.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/internal/eventstreaming/MessageDecoder.java
 *
 /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/ObjectLockConfiguration.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/ObjectLockEnabled.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/ObjectLockRetentionMode.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/transform/ObjectLockLegalHoldXmlFactory.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/transform/ObjectLockRetentionXmlFactory.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/transfer/AbortableTransfer.java
 *
 /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/CompressionType.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/transfer/internal/AbstractDownloadCallableConfig.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/SelectObjectContentEvent.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/SelectObjectContentResult.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/transform/SelectObjectContentEventUnmarshaller.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/SetObjectLockConfigurationResult.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/ObjectLockLegalHoldStatus.java
 *
 /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/transfer/PresignedUrlDownload.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/transfer/internal/PresignedUrlDownloadImpl.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/GetObjectLockConfigurationResult.java
 * /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
 jar/com/amazonaws/services/s3/model/GetObjectLegalHoldResult.java

```
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/ObjectLockConfigurationXmlFactory.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PresignedUrlUploadRequest.java
```

```
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/JSONInput.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ObjectLockRetention.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetObjectRetentionRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PresignedUrlUploadResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectRetentionRequest.java
```

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```

```
*/
/**
* Interface for providing encryption materials.
* Implementations are free to use any strategy for providing encryption
* materials, such as simply providing static material that doesn't change,
* or more complicated implementations, such as integrating with existing
* key management systems.
```

```
*/
```

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```
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/AbstractRepeatableCipherInputStream.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/AbstractTransfer.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/DownloadMonitor.java
*
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/TransferStateChangeListener.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/MultipleFileUpload.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileDownloadImpl.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileUploadImpl.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransferMonitor.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/MultipleFileDownload.java
*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransfer.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v1/KMSSecuredCEK.java
*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v2/SecuredCEK.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/waiters/HeadBucketFunction.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v2/S3CryptoModuleBase.java

*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v1/S3ObjectWrapper.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/exception/PauseException.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/keywrap/InternalKeyWrapAlgorithm.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/CryptoMode.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v1/S3CryptoModuleAESTRICT.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v1/S3CryptoModule.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v1/S3CryptoModuleAE.java

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/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/AmazonS3EncryptionClient.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/v1/S3CryptoModuleEO.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/internal/S3ProgressListenerChain.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/crypto/v2/S3CryptoModuleAE.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/PersistableUpload.java
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jar/com/amazonaws/services/s3/internal/crypto/v1/MultipartUploadCbcContext.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/crypto/ContentCryptoScheme.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AmazonS3Encryption.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/PauseStatus.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/crypto/RenewableCipherLiteInputStream.java
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/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/crypto/GCMCipherLite.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/crypto/v1/CryptoModuleDispatcher.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/crypto/v1/ContentCryptoMaterial.java
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jar/com/amazonaws/services/s3/transfer/DownloadCallable.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetBucketCrossOriginConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetBucketLifecycleConfigurationRequest.java
*
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ListNextBatchOfObjectsRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/GetBucketLoggingConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/GetBucketTaggingConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/FileLocks.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ListNextBatchOfVersionsRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/GetBucketAccelerateConfigurationRequest.java
*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/GetBucketVersioningConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SetBucketReplicationConfigurationRequest.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ExistingObjectReplicationStatus.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ExistingObjectReplication.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/DeleteBucketEncryptionRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ReplicaModifications.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/DeleteMarkerReplicationStatus.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ServerSideEncryptionConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/CopyMonitor.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/ServerSideEncryptionResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/CORSRule.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryCondition.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/ProgressStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/EventBridgeConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/FilterRule.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/ServerSideEncryptionByDefaultStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ReplicationRule.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SSEAlgorithm.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/TopicConfigurationStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/StatsStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/request/S3HandlerContextKeys.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryablePredicate.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/BucketReplicationConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/S3KeyFilter.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/S3KeyFilterStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-

jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ReplicationDestinationConfig.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetObjectAclRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/TransferCompletionFilter.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetBucketNotificationConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AbstractAmazonS3.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/FilterStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/HeadBucketResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/GetBucketReplicationConfigurationRequest.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/LambdaConfigurationStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/BucketNotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SetBucketAccelerateConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/DeleteBucketReplicationConfigurationRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/GetPublicAccessBlockStaxUnmarshaller.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/FilterRuleStaxUnmarshaller.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AbstractAmazonS3EncryptionV2.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/Filter.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/ReplicationRuleStatus.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/LambdaConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/BucketAccelerateConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/exception/FileLockException.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/transform/GetBucketPolicyStatusStaxUnmarshaller.java
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 */
// The Amazon S3 DevPay token header is a special exception and can be safely moved
```

Found in path(s):

```
*/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AmazonS3Client.java
```

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```
*/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AmazonS3EncryptionClientParams.java
```

```
*/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AmazonS3EncryptionClientV2Builder.java
```

```
*/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/KeyFilter.java
```

```
*/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AmazonS3EncryptionClientV2Params.java
```

```
*/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/AmazonS3EncryptionClientBuilder.java
```

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientV2ParamsWrapper.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientParamsWrapper.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3ObjectLambdaOperationEndpointBuilder.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/EventBridgeConfigurationStaxUnmarshaller.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/WriteGetObjectResponseResult.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3ObjectLambdaEndpointBuilder.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/WriteGetObjectResponseRequest.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ScanRange.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/PreparedDownloadContext.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/internal/DownloadS3ObjectCallable.java

*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/ObjectCannedAclProvider.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3AccessPointBuilder.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3ObjectLambdasResource.java

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/**

* Gets the optional `versionIdMarker` parameter indicating where in the

* sorted list of all versions in the specified bucket to begin returning

* results. Results are always ordered first lexicographically (i.e.

* alphabetically) and then from most recent version to least recent

* version.

* `<p>`

* A key marker must be specified when specifying a `versionIdMarker`.

* Results begin immediately after the version with the specified key and

* version ID.

* `</p>`

*

* @return The optional `versionIdMarker` parameter indicating where in the

* sorted list of all versions in the specified bucket to begin

* returning results.

*
* @see ListVersionsRequest#setVersionIdMarker(String)
* @see ListVersionsRequest#withVersionIdMarker(String)
*/

Found in path(s):

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ListVersionsRequest.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3RequesterChargedResult.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/AbortIncompleteMultipartUpload.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/auth/ChunkContentIterator.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/AmazonS3URI.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/UploadObjectRequest.java

*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/InstructionFileId.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SSECustomerKeyProvider.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SSECustomerKey.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/S3DirectSpi.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/CloudFunctionConfiguration.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/AbstractPutObjectRequest.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/FileDeletionEvent.java

*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/ExtraMaterialsDescription.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/EncryptedGetObjectRequest.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/UploadObjectObserver.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/AmazonS3ExceptionHandler.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/S3ObjectId.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SSEAwsKeyManagementParams.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/OnFileDelete.java

*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/EncryptionMaterialsFactory.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/MultiFileOutputStream.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/MultipleFileTransferStateChangeListener.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/S3DataSource.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SimpleMaterialProvider.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-

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jar/com/amazonaws/services/s3/model/MaterialsDescriptionProvider.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/S3Event.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PutObjectRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/internal/S3SyncProgressListener.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/EncryptedPutObjectRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/EncryptedInitiateMultipartUploadRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/S3Direct.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/QueueConfiguration.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/KMSEncryptionMaterialsProvider.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/transfer/MultipleFileTransferProgressUpdatingListener.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/NotificationConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/SSEAwsKeyManagementParamsProvider.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/KeyWrapException.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/PutInstructionFileRequest.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/auth/DecodedStreamBuffer.java
*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/TopicConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/S3ObjectIdBuilder.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/internal/PartCreationEvent.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/S3ObjectSummary.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/MultiFactorAuthentication.java

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/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/MD5DigestCalculatingInputStream.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/SetBucketLifecycleConfigurationRequest.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/BucketWebsiteConfiguration.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/transfer/TransferManagerBuilder.java
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/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/crypto/ByteRangeCapturingInputStream.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/transform/XmlIntelligentTieringPredicateVisitor.java

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/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/EndpointParams.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/intelligenttiering/IntelligentTieringTagPredicate.java
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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*
/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/GetBucketOwnershipControlsResult.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/OwnerOverride.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/AccessControlTranslation.java
* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/metrics/MetricsAndOperator.java
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*

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/RestUtils.java

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/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/RepeatableInputStream.java

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*

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*

/opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/internal/ServiceUtils.java

* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-jar/com/amazonaws/services/s3/model/Grant.java

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* /opt/cola/permits/2011416156_1715835339.043105/0/aws-java-sdk-s3-1-12-135-sources-
jar/com/amazonaws/services/s3/model/BucketLoggingConfiguration.java
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jar/com/amazonaws/services/s3/internal/S3StringResponseHandler.java
```

1.429 aws-java-sdk-sts 1.12.135

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*/
/**
 * <p>
 * Returns a set of temporary security credentials (consisting of an access key ID, a secret access key, and a
 * security token) for a federated user. A typical use is in a proxy application that gets temporary security
 * credentials on behalf of distributed applications inside a corporate network. You must call the
 *
 * <code>GetFederationToken</code> operation using the long-term security credentials of an IAM user. As a
result,
 * this call is appropriate in contexts where those credentials can be safely stored, usually in a server-based
 * application. For a comparison of <code>GetFederationToken</code> with the other API operations that
produce
 * temporary credentials, see <a
 * href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html">Requesting
Temporary
 * Security Credentials</a> and <a
 *
 * href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#stsapi_comparison"
 * >Comparing the Amazon Web Services STS API operations</a> in the <i>IAM User Guide</i>.
 * </p>
 * <note>
 * <p>
 * You can create a mobile-based or browser-based app that can authenticate users using a web identity provider
```

like

* Login with Amazon, Facebook, Google, or an OpenID Connect-compatible identity provider.

In this case, we

* recommend that you use [Amazon Cognito](http://aws.amazon.com/cognito/) or

* `AssumeRoleWithWebIdentity`. For more information, see https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_assumerolewithwebidentity

*

"https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_assumerolewithwebidentity"

* [Federation Through a Web-based Identity Provider](#) in the *IAM User Guide*.

* `</p>`

* `</note>`

* `<p>`

* You can also call `GetFederationToken` using the security credentials of an Amazon Web Services

account root user, but we do not recommend it. Instead, we recommend that you create an IAM user for the purpose

* of the proxy application. Then attach a policy to the IAM user that limits federated users to only the actions

* and resources that they need to access. For more information, see [IAM Best Practices](https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html) in the

IAM

*

User Guide.

* `</p>`

* `<p>`

* **Session duration**

* `</p>`

* `<p>`

The temporary credentials are valid for the specified duration, from 900 seconds (15 minutes) up to a maximum of

* 129,600 seconds (36 hours). The default session duration is 43,200 seconds (12 hours). Temporary credentials

obtained by using the Amazon Web Services account root user credentials have a maximum duration of 3,600 seconds

* (1 hour).

* `</p>`

* `<p>`

* **Permissions**

* `</p>`

* `<p>`

You can use the temporary credentials created by `GetFederationToken` in any Amazon Web Services

service except the following:

* `</p>`

* ``

* ``

* `<p>`

* You cannot call any IAM operations using the CLI or the Amazon Web Services API.

* `</p>`

* ``

- *
- * <p>
- * You cannot call any STS operations except `GetCallerIdentity`.
- * </p>
- *
- *
- * <p>
- * You must pass an inline or managed [session policy](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session) to this operation. You can pass a single JSON policy document to use as an inline session policy. You can also specify up to 10 managed policies to use as managed session policies. The plaintext that you use for both inline and managed session policies can't exceed 2,048 characters.
- * </p>
- * <p>
- * Though the session policy parameters are optional, if you do not pass a policy, then the resulting federated user session has no permissions. When you pass session policies, the session permissions are the intersection of the IAM user policies and the session policies that you pass. This gives you a way to further restrict the permissions for a federated user. You cannot use session policies to grant more permissions than those that are defined in the permissions policy of the IAM user. For more information, see [Session Policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session) in the *IAM User Guide*. For information about using `GetFederationToken` to create temporary security credentials, see [GetFederationToken—Federation Through a Custom Identity Broker](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_getfederationtoken).
- * </p>
- * <p>
- * You can use the credentials to access a resource that has a resource-based policy. If that policy specifically references the federated user session in the `Principal` element of the policy, the session has the permissions allowed by the policy. These permissions are granted in addition to the permissions granted by the session policies.
- * </p>
- * <p>
- * **Tags**
- * </p>
- * <p>
- * (Optional)
- You can pass tag key-value pairs to your session. These are called session tags. For more information about session tags, see [Passing Session Tags in STS](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_session-tags.html) in the *IAM User Guide*.
- * </p>
- * <note>
- * <p>

* You can create a mobile-based or browser-based app that can authenticate users using a web identity provider like

- * Login with Amazon, Facebook, Google, or an OpenID Connect-compatible identity provider. In this case, we
- * recommend that you use [Amazon Cognito](http://aws.amazon.com/cognito/) or
- * `AssumeRoleWithWebIdentity`. For more information, see https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_assumerolewithwebidentity

>Federation Through a Web-based Identity Provider in the *IAM User Guide*.

</p>

</note>

<p>

* An administrator must grant you the permissions necessary to pass session tags. The administrator can also create

- * granular permissions to allow you to pass only specific session tags. For more information, see [Tutorial](https://docs.aws.amazon.com/IAM/latest/UserGuide/tutorial_attribute-based-access-control.html):
- * Using Tags for Attribute-Based Access Control in the *IAM User Guide*.

</p>

<p>

- * Tag key–value pairs are not case sensitive, but case is preserved. This means that you cannot have separate
- * `Department` and `department` tag keys. Assume that the user that you are federating has
- * the `Department=Marketing` tag and you pass the `department=engineering` session tag. `Department` and `department` are not saved as
- * separate tags, and the session tag passed in the request takes precedence over the user tag.

</p>

*

- * @param getFederationTokenRequest
- * @return A Java Future containing the result of the GetFederationToken operation returned by the service.
- * @sample AWSSecurityTokenServiceAsync.GetFederationToken
- * @see <http://docs.aws.amazon.com/goto/WebAPI/sts-2011-06-15/GetFederationToken>

target="_top">AWS API

- * Documentation

*/

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```

Found in path(s):

```
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/SessionCredentialsProviderFactory.java
No license file was found, but licenses were detected in source scan.
```

```
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*/
/**
```

```
* <p>
* Returns a set of temporary security credentials (consisting of an access key ID, a secret access key, and a
* security token) for a federated user. A typical use is in a proxy application that gets temporary security
* credentials on behalf of distributed applications inside a corporate network. You must call the
*
* <code>GetFederationToken</code> operation using the long-term security credentials of an IAM user. As a
result,
* this call is appropriate in contexts where those credentials can be safely stored, usually in a server-based
* application. For a comparison of <code>GetFederationToken</code> with the other API operations that
produce
* temporary credentials, see <a
* href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html">Requesting
Temporary
* Security Credentials</a> and <a
*
href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#stsapi_comparison"
* >Comparing the Amazon Web Services STS API operations</a> in the <i>IAM User Guide</i>.
* </p>
```

* <note>

* <p>

* You can create a mobile-based or browser-based app that can authenticate users using a web identity provider like

* Login with Amazon, Facebook, Google, or an OpenID Connect-compatible identity provider.

In this case, we

* recommend that you use Amazon Cognito or

* <code>AssumeRoleWithWebIdentity</code>. For more information, see

">Federation Through a Web-based Identity Provider in the <i>IAM User Guide</i>.

* </p>

* </note>

* <p>

* You can also call <code>GetFederationToken</code> using the security credentials of an Amazon Web Services

account root user, but we do not recommend it. Instead, we recommend that you create an IAM user for the purpose

* of the proxy application. Then attach a policy to the IAM user that limits federated users to only the actions

* and resources that they need to access. For more information, see IAM Best Practices in the <i>IAM

* User Guide</i>.

* </p>

* <p>

* Session duration

* </p>

* <p>

* The temporary credentials are valid for the specified duration, from 900 seconds (15 minutes) up to a maximum of

* 129,600 seconds (36 hours). The default session duration is 43,200 seconds (12 hours). Temporary credentials

* obtained by using the Amazon Web Services account root user credentials have a maximum duration of 3,600 seconds

* (1 hour).

* </p>

* <p>

* Permissions

* </p>

* <p>

* You can use the temporary credentials created by <code>GetFederationToken</code> in any Amazon Web Services

service except the following:

* </p>

*

*

*

*

- * You cannot call any IAM operations using the CLI or the Amazon Web Services API.

</p>

-

-

<p>

- * You cannot call any STS operations except <code>GetCallerIdentity</code>.

</p>

-

<p>

- * You must pass an inline or managed session policy
- * to this operation. You can pass a single JSON policy document to use as an inline session policy. You can also
- * specify up to 10 managed policies to use as managed session policies. The plaintext that you use for both inline
- * and managed session policies can't exceed 2,048 characters.

</p>

<p>

- * Though the session policy parameters are optional, if you do not pass a policy, then the resulting federated user
- * session has no permissions. When you pass session policies, the session permissions are the intersection of the
- * IAM user policies and the session policies that you pass. This gives you a way to further restrict the
- * permissions for a federated user. You cannot use session policies to grant more permissions than those that are
- * defined in the permissions policy

of the IAM user. For more information, see Session Policies in the <i>IAM User Guide</i>. For information about using <code>GetFederationToken</code> to create

- * temporary security credentials, see

</p>

- >GetFederationToken—Federation Through a Custom Identity Broker.

</p>

<p>

- * You can use the credentials to access a resource that has a resource-based policy. If that policy specifically
- * references the federated user session in the <code>Principal</code> element of the policy, the session has the
- * permissions allowed by the policy. These permissions are granted in addition to the permissions granted by the
- * session policies.

</p>

<p>

- Tags

</p>

<p>

- * (Optional)

You can pass tag key-value pairs to your session. These are called session tags. For more information

- * about session tags, see Passing

</p>

- * Session Tags in STS in the <i>IAM User Guide</i>.

* </p>

* <note>

* <p>

* You can create a mobile-based or browser-based app that can authenticate users using a web identity provider like

* Login with Amazon, Facebook, Google, or an OpenID Connect-compatible identity provider. In this case, we

* recommend that you use Amazon Cognito or

* <code>AssumeRoleWithWebIdentity</code>. For more information, see

"https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_assumerolewithwebidentity"

* >Federation Through a Web-based Identity Provider in the <i>IAM User Guide</i>.

* </p>

* </note>

* <p>

* An administrator

must grant you the permissions necessary to pass session tags. The administrator can also create

* granular permissions to allow you to pass only specific session tags. For more information, see Tutorial:

* Using Tags for Attribute-Based Access Control in the <i>IAM User Guide</i>.

* </p>

* <p>

* Tag key–value pairs are not case sensitive, but case is preserved. This means that you cannot have separate

* <code>Department</code> and <code>department</code> tag keys. Assume that the user that you are federating has

* the <code>Department</code>=<code>Marketing</code> tag and you pass the <code>department</code>=<code>engineering</code> session tag. <code>Department</code> and <code>department</code> are not saved as

* separate tags, and the session tag passed in the request takes precedence over the user tag.

* </p>

*

* @param getFederationTokenRequest

* @return Result of the GetFederationToken operation returned by the service.

* @throws MalformedPolicyDocumentException

* The request was rejected because the policy document was malformed. The error message describes the specific error.

* @throws PackedPolicyTooLargeException

* The request was rejected because the total packed size of the session policies and session tags combined was too large. An Amazon Web Services conversion compresses the session policy document, session policy

* ARNs, and session tags into a packed binary format that has a separate limit. The error message indicates

* by percentage how close the policies and tags are to the upper size limit. For more information, see Passing Session Tags in

* STS in the <i>IAM

User Guide</i>.</p>

* <p>

* You could receive this error even though you meet other defined session policy and session tag limits.

- * For more information, see https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_iam-quotas.html#reference_iam-limits-entity-length
- * https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_iam-quotas.html#reference_iam-limits-entity-length >IAM and STS Entity Character Limits in the *IAM User Guide*.
- * @throws RegionDisabledException
- * STS is not activated in the requested region for the account that is being asked to generate credentials.
- * The account administrator must use the IAM console to activate STS in that region. For more information, see https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_enable-regions.html
- * [Activating and Deactivating Amazon Web Services STS in an Amazon Web Services Region](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_enable-regions.html) in the *IAM User Guide*.
- * @sample AWSSecurityTokenService.GetFederationToken
- * @see <http://docs.aws.amazon.com/goto/WebAPI/sts-2011-06-15/GetFederationToken> target="_top">AWS API Documentation
- */

Found in path(s):

- * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/AWSSecurityTokenService.java
- * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/AWSSecurityTokenServiceClient.java

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- * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/internal/STSPProfileCredentialsService.java

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* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/auth/STSSessionCredentialsProvider.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/auth/NoSessionSupportCredentials.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/auth/STSAssumeRoleSessionCredentialsProvider.java
*
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/auth/STSSessionCredentials.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/auth/WebIdentityFederationSessionCredentialsProvider.java

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* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/auth/STSAssumeRoleWithWebIdentitySessionCredentialsProvider.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/RegionalEndpointsOptionResolver.java

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 */
```

Found in path(s):

```
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/Tag.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/AbstractAWSSecurityTokenService.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/GetAccessKeyInfoRequest.java
 *
 /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/RegionDisabledExceptionUnmarshaller.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/GetFederationTokenResultStaxUnmarshaller.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/GetSessionTokenResult.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/PackedPolicyTooLargeExceptionUnmarshaller.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/package-info.java
 *
 /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/AssumeRoleWithWebIdentityRequest.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/ExpiredTokenExceptionUnmarshaller.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/GetSessionTokenRequest.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/policy/actions/SecurityTokenServiceActions.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/AssumeRoleResultStaxUnmarshaller.java
 * /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/InvalidIdentityTokenExceptionUnmarshaller.java
 *
```

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/MalformedPolicyDocumentExceptionUnmarshaller.java

a

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/GetCallerIdentityResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AssumeRoleResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AssumeRoleWithSAMLResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/GetSessionTokenRequestMarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/GetFederationTokenRequestMarshaller.java

*

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/TagStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/GetFederationTokenResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/GetSessionTokenResultStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/IDPCommunicationErrorExceptionUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/DecodeAuthorizationMessageResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/AssumeRoleWithWebIdentityResultStaxUnmarshaller.java

java

*

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/AssumedRoleUserStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/GetAccessKeyInfoResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AssumeRoleWithWebIdentityResult.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/AWSSecurityTokenServiceClientBuilder.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/AssumeRoleWithWebIdentityRequestMarshaller.java

*

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/ExpiredTokenException.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/IDPCommunicationErrorException.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/InvalidAuthorizationMessageException.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/DecodeAuthorizationMessageResultStaxUnmarshaller.java

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* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/GetAccessKeyInfoResultStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/FederatedUser.java

*

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/CredentialsStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/GetCallerIdentityRequest.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/FederatedUserStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/PolicyDescriptorType.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AWSSecurityTokenServiceException.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/AssumeRoleWithSAMLRequestMarshaller.java

*

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/DecodeAuthorizationMessageRequestMarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/InvalidAuthorizationMessageExceptionUnmarshaller.java

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* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/IDPRejectedClaimException.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/DecodeAuthorizationMessageRequest.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/AssumeRoleWithSAMLResultStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/AssumeRoleRequestMarshaller.java

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/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/Credentials.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/transform/PolicyDescriptorTypeStaxUnmarshaller.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AssumedRoleUser.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AssumeRoleRequest.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/MalformedPolicyDocumentException.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/RegionDisabledException.java

*

/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/AssumeRoleWithSAMLRequest.java

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-

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jar/com/amazonaws/services/securitytoken/model/transform/GetAccessKeyInfoRequestMarshaller.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/AWSSecurityTokenServiceAsyncClient.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/IDPRejectedClaimExceptionUnmarshaller.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/InvalidIdentityTokenException.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/AbstractAWSSecurityTokenServiceAsync.java
*
/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/PackedPolicyTooLargeException.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/GetCallerIdentityRequestMarshaller.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/AWSSecurityTokenServiceAsyncClientBuilder.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/services/securitytoken/model/transform/GetCallerIdentityResultStaxUnmarshaller.java
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```

```
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*/
/**
```

```
 * <p>
 * An IAM policy in JSON format that you want to use as an inline session policy.
 * </p>
 * <p>
 * You must pass an inline or managed <a
 * href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">session
policy</a>
 * to this operation. You can pass a single JSON policy
document to use as an inline session policy. You can also
 * specify up to 10 managed policies to use as managed session policies.
 * </p>
 * <p>
```

* This parameter is optional. However, if you do not pass any session policies, then the resulting federated user session has no permissions.

</p>

<p>

* When you pass session policies, the session permissions are the intersection of the IAM user policies and the session policies that you pass. This gives you a way to further restrict the permissions for a federated user.

* You cannot use session policies to grant more permissions than those that are defined in the permissions policy of the IAM user. For more information, see Session Policies in the <i>IAM User Guide</i>.

</p>

<p>

* The resulting credentials can be used to access a resource that has a resource-based policy. If that policy

* specifically references the federated user session in the <code>Principal</code> element of the policy, the session has the permissions allowed by the policy. These permissions are granted in addition to the permissions that are granted by the session policies.

</p>

<p>

* The plaintext that you use for both inline and managed session policies can't exceed 2,048 characters. The JSON policy characters can be any ASCII character from the space character to the end of the valid character list (through \u00FF). It can also include the tab (), linefeed (), and carriage return () characters.

</p>

<note>

<p>

* An Amazon Web Services conversion compresses the passed session policies and session tags into a packed binary

* format that has a separate limit. Your request can fail for this limit even if your plaintext meets the other

* requirements. The <code>PackedPolicySize</code>

response element indicates by percentage how close the policies

* and tags for your request are to the upper size limit.

</p>

</note>

*/

Found in path(s):

* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-jar/com/amazonaws/services/securitytoken/model/GetFederationTokenRequest.java

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* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/RefreshableTask.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/SessionCredentialsHolder.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/ShouldDoBlockingSessionRefresh.java
*
/opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/DaemonThreadFactory.java
* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/ShouldDoAsyncSessionRefresh.java

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* /opt/cola/permits/2011416246_1715835336.191335/0/aws-java-sdk-sts-1-12-135-sources-
jar/com/amazonaws/auth/policy/STSActions.java

1.430 aws-java-sdk-sqs 1.12.135

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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/internal/auth/SQSSignerProvider.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/QueueBufferConfig.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/AmazonSQSBufferedAsyncClient.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/SendQueueBuffer.java
*
/opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/internal/SQSRequestHandler.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/QueueBuffer.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/QueueBufferCallback.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/ReceiveQueueBuffer.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/ResultConverter.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/buffered/QueueBufferFuture.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-

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jar/com/amazonaws/services/sqs/model/DeleteQueueResult.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/model/transform/ListDeadLetterSourceQueuesRequestMarshaller.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/model/EmptyBatchRequestException.java
*
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
jar/com/amazonaws/services/sqs/model/RemovePermissionRequest.java

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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/DeleteMessageBatchResultStaxUnmarshaller.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/UntagQueueRequest.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/DeleteQueueResultStaxUnmarshaller.java
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/opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/EmptyBatchRequestExceptionUnmarshaller.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/ReceiveMessageRequestMarshaller.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/DeleteMessageBatchRequestEntryStaxUnmarshaller.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/DeleteMessageBatchResultEntryStaxUnmarshaller.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/auth/policy/actions/SQSActions.java
*
/opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/ListDeadLetterSourceQueuesRequest.java
* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/InvalidIdFormatException.java
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* /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-jar/com/amazonaws/services/sqs/model/transform/TooManyEntriesInBatchRequestExceptionUnmarshaller.java
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 * /opt/cola/permits/2011416221_1715835344.0480194/0/aws-java-sdk-sqs-1-12-135-sources-
 jar/com/amazonaws/services/sqs/model/AmazonSQSException.java

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jar/com/amazonaws/services/sqs/model/ListDeadLetterSourceQueuesResult.java
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1.431 aws-java-sdk-dynamodb 1.12.135

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/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/DeleteAction.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/L.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/S.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBMappingsRegistry.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/NamedElement.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/IfNotExistsFunction.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/RemoveAction.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/xspec/UnitOfExpression.java
*

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/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/NULL.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/FunctionCondition.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/SubstitutionContext.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/DeleteItemExpressionSpec.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/Operand.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/ParenthesizedCondition.java
*
/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/PathElement.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/Condition.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/ScanExpressionSpec.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/NegationCondition.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/FunctionOperand.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/PlusOperation.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/NS.java
*
/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/Path.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/QueryExpressionSpec.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/Precedence.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/MinusOperation.java
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/ExpressionSpec.java
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/ComparatorCondition.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/SetAction.java

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jar/com/amazonaws/services/dynamodbv2/datamodeling/ScanResultPage.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/datamodeling/QueryResultPage.java
*
/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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```

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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/metrics/DynamoDBRequestMetric.java
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jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBAttribute.java
```

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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBVersionAttribute.java
```

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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
jar/com/amazonaws/services/dynamodbv2/datamodeling/PaginatedParallelScanList.java
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/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBDeleteExpression.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/PaginatedList.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/unmarshallers/BUUnmarshaller.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBIndexRangeKey.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBRangeKey.java
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*
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBIndexHashKey.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/ReflectionUtils.java
*
/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBMapperFieldModel.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBSaveExpression.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/ArgumentUnmarshaller.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBTypeConverted.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBTable.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBMarshaller.java
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/opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/unmarshallers/SSUnmarshaller.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/unmarshallers/SUnmarshaller.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBAutoGeneratedKey.java
* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBAutoGenerated.java
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jar/com/amazonaws/services/dynamodbv2/datamodeling/DynamoDBScanExpression.java
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-
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jar/com/amazonaws/services/dynamodbv2/datamodeling/TransactionLoadRequest.java  
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jar/com/amazonaws/services/dynamodbv2/datamodeling/BatchLoadContext.java  
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* /opt/cola/permits/2011416241_1715835396.188494/0/aws-java-sdk-dynamodb-1-12-135-sources-jar/com/amazonaws/services/dynamodbv2/xspec/ArrayIndexElement.java
*
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1.432 aws-java-sdk-cloudwatch 1.12.135

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 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/DisableAlarmActionsResult.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/DisableInsightRulesResult.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/Range.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/transform/PutCompositeAlarmResultStaxUnmarshaller.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/GetInsightRuleReportResult.java
 *
 /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/DescribeAlarmHistoryResult.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/transform/InsightRuleContributorStaxUnmarshaller.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/GetMetricDataRequest.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/AmazonCloudWatchClient.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/SetAlarmStateRequest.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/PutCompositeAlarmRequest.java
 *
 /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/transform/AlarmHistoryItemStaxUnmarshaller.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/DescribeInsightRulesResult.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/AmazonCloudWatch.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/InsightRuleContributor.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/DeleteDashboardsResult.java
 * /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-jar/com/amazonaws/services/cloudwatch/model/StartMetricStreamsResult.java
 *

```
/opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/transform/StopMetricStreamsResultStaxUnmarshaller.java
* /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/transform/DimensionStaxUnmarshaller.java
* /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/AmazonCloudWatchClientBuilder.java
* /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/InsightRuleMetricDatapoint.java
* /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/transform/DescribeInsightRulesResultStaxUnmarshaller.java
* /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/transform/RangeStaxUnmarshaller.java
*
/opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/InsightRule.java
* /opt/cola/permits/2011416131_1715835365.2634676/0/aws-java-sdk-cloudwatch-1-12-135-sources-
jar/com/amazonaws/services/cloudwatch/model/transform/SetAlarmStateRequestMarshaller.java
```

1.433 aws-java-sdk-core 1.12.135

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jar/com/amazonaws/log/InternalLogApi.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/AbstractBase32Codec.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/HttpClientWrappingInputStream.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/SdkRuntime.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkBufferedInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkDigestInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkFilterOutputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/Region.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/MetricsInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/RegionAwareSigner.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Base32Codec.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/IOUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Base32.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Throwables.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Base64Codec.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/jmx/SdkMBeanRegistrySupport.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/ServiceAwareSigner.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Base64.java
*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Base16Codec.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Base16.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/ResetException.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/jmx/MBeans.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/MetricAware.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/RegionMetadataParser.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/CodecUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/ListWithAutoConstructFlag.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkFilterInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/EncodingSchemeEnum.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/AWS4Signer.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/RegionUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/EncodingScheme.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/RegionMetadata.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/AbortedException.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Codec.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/RequestClientOptions.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/ClassLoaderHelper.java

*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/AWSSessionCredentials.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/BasicSessionCredentials.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/json/Jackson.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/metrics/MetricAdminMBean.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/metrics/MetricAdmin.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/jmx/JmxInfoProviderSupport.java

*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/ServiceClientHolderInputStream.java

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* Interface for providing AWS credentials. Implementations are free to use any

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 - * credentials that don't change, or more complicated implementations, such as
 - * integrating with existing key management systems.
- */

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkRequestRetryHeaderProvider.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/http/ErrorCodeParser.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/NullResponseMetadataCache.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/MetadataCache.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/auth/SignerProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/adapters/types/StringToInputStreamAdapter.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/auth/SignerProviderContext.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/auth/DefaultSignerProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/auth/NoOpSignerProvider.java
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jar/com/amazonaws/util/StringMapBuilder.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/SimpleTypeUnmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/AmazonClientException.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/HttpMethodName.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/Unmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/XmlUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/SignatureVersion.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/VoidUnmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/SigningAlgorithm.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/AWSCredentials.java
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jar/com/amazonaws/event/ResponseProgressInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceLoader.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
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jar/com/amazonaws/event/SDKProgressPublisher.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/event/RequestProgressInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/event/DeliveryMode.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/internal/SignerConstants.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/event/ProgressTracker.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/profile/internal/Profile.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Platform.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/FIFOCache.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/internal/SignerKey.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/event/ProgressEventFilter.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/ProfilesConfigFile.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/DelegateSSLSocket.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/internal/ProfileProcessCredentialsProvider.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/event/SyncProgressListener.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkSocket.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/Releasable.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/UnreliableFilterInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/UnreliableTestConfig.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/annotation/SdkTestInternalApi.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/annotation/GuardedBy.java

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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/annotation/Beta.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/annotation/SdkProtectedApi.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/annotation/ThreadSafe.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/annotation/NotThreadSafe.java

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jar/com/amazonaws/annotation/Immutable.java

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jar/com/amazonaws/auth/RegionFromEndpointResolverAwareSigner.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/util/endpoint/DefaultRegionFromEndpointResolver.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/util/endpoint/RegionFromEndpointResolver.java

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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/regions/MetadataSupportedRegionFromEndpointProvider.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/IdleConnectionReaper.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/AwsHostNameUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/HandlerContextAware.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/CRC32MismatchException.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/partitions/model/Service.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/partitions/model/CredentialScope.java
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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/partitions/model/Region.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/partitions/model/Endpoint.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/InMemoryRegionsProvider.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/partitions/PartitionMetadataProvider.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/RegionMetadataProvider.java
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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/partitions/PartitionsLoader.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/SdkIonGenerator.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
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- /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/StructuredPojo.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/AWSStaticCredentialsProvider.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/internal/ProfileStaticCredentialsProvider.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/SdkClock.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/StaticCredentialsProvider.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/presign/PresignerParams.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/ExecutionContext.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/internal/SimpleTypePathMarshallers.java
- *
- /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkFunction.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/internal/HeaderMarshallers.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/profile/path/config/ConfigEnvVarOverrideLocationProvider.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/internal/EmptyBodyJsonMarshaller.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/MaxNumberOfRetriesCondition.java
- * /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/SdkHttpMetadata.java
- *

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/OperationInfo.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/AwsSystemPropertyRegionProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/internal/QueryParamMarshallers.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/RetryPolicy.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/JsonProtocolMarshallerBuilder.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/JsonContentTypeResolver.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/SdkStructuredJsonFactoryImpl.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/JsonOperationMetadata.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/client/ClientHandlerImpl.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/profile/path/cred/CredentialsDefaultLocationProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/V2CompatibleBackoffStrategy.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/profile/path/AwsProfileFileLocationProviderChain.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/TimingInfoFullSupport.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/TimingInfoUnmodifiable.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/internal/ProfileAssumeRoleCredentialsProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/RetryOnExceptionsCondition.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/StaticSignerProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/ClientConfigurationFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/DefaultValueSupplier.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/MarshallingInfo.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/Protocol.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/DefaultMarshallingType.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

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jar/com/amazonaws/client/AwsSyncClientParams.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/RequestConfig.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/regions/EndpointToRegion.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/retry/V2CompatibleBackoffStrategyAdapter.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/internal/JsonMarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/client/builder/AwsAsyncClientBuilder.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/SdkJsonMarshallerFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/retry/v2/OrRetryCondition.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/client/AwsAsyncClientParams.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/SdkJsonGenerator.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/MarshallLocation.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/TimingInfo.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/MarshallingType.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/ProtocolRequestMarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/AbstractErrorUnmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/regions/InstanceMetadataRegionProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/request/HttpRequestFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/profile/path/config/SharedConfigDefaultLocationProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/AwsErrorResponseHandler.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/AmazonWebServiceRequestAdapter.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/retry/v2/RetryPolicyContext.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/JsonClientMetadata.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/retry/PredefinedBackoffStrategies.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/SdkBaseException.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/internal/AwsProfileNameLoader.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/client/ClientHandlerParams.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/internal/JsonMarshallerContext.java

*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/AndRetryCondition.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/BackoffStrategy.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/internal/ProfileKeyConstants.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/transform/ListUnmarshaller.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/profile/internal/AllProfiles.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/client/SdkInterruptedException.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/regions/AwsRegionProviderChain.java

*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/internal/MarshallerRegistry.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/SimpleRetryPolicy.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/FixedDelayBackoffStrategy.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/profile/path/cred/CredentialsEnvVarOverrideLocationProvider.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/JsonContentTypeResolverImpl.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/v2/RetryCondition.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/XMLWriter.java

*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/AWSRefreshableSessionCredentials.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/JsonErrorShapeMetadata.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/profile/path/AwsDirectoryBasePathProvider.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/client/ClientHandler.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/regions/AwsEnvVarOverrideRegionProvider.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/SdkClientException.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/PathMarshallers.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/MapUnmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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jar/com/amazonaws/protocol/json/JsonContent.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/response/AwsResponseHandlerAdapter.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/ProtocolMarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/StringInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/regions/AwsProfileRegionProvider.java

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```
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/regions/ServiceAbbreviations.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/regions/Regions.java
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 */
```

```
/**
 * Interface for providing AWS region information. Implementations are free to use any strategy for
 * providing region information.
 */
```

Found in path(s):

```
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/Classes.java

*

/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/DateUtils.java

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```
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/SdkSSLContext.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/annotation/package-info.java
```

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Found in path(s):

```
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/NamedDefaultThreadFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/waiters/WaiterExecutorServiceFactory.java
```

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/InstanceMetadataServiceResourceFetcher.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/EndpointPrefixAwareSigner.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/RetryMode.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/ContainerCredentialsFetcher.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/ContainerCredentialsProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/InstanceMetadataServiceCredentialsFetcher.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/TokenBucket.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/CredentialsEndpointProvider.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/BaseCredentialsFetcher.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/EC2ResourceFetcher.java
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jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/apache/utils/ApacheUtils.java
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```
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/config/JsonIndex.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/config/Builder.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java
```

```
*
 /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/Protocol.java
```

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
```

jar/com/amazonaws/util/ImmutableMapParameter.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/internal/config/SignerConfig.java

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jar/com/amazonaws/util/HostnameValidator.java

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jar/com/amazonaws/transform/EnhancedJsonErrorUnmarshaller.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/util/ReflectionMethodInvoker.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/CanHandleNullCredentials.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/IdempotentUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/client/impl/ApacheHttpClientFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/package-info.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/log/InternalLogFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/FakeIOException.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/CapacityManager.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/handlers/IRequestHandler2.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/SdkThreadLocals.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/log/InternalLog.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/transform/JsonErrorUnmarshaller.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/UriResourcePathUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/ValidationUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkMetricsSocket.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/exception/HttpRequestTimeoutException.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTaskImpl.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/client/ClientExecutionTimeoutException.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskImpl.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/DelegateSocket.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/DelegateInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

jar/com/amazonaws/util/NumberUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/ComparableUtils.java
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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/timers/request/HttpRequestTimer.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/SdkThreadLocalsRegistry.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/handlers/HandlerContextKey.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTask.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/SdkInternalMap.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/util/Base16Lower.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/SignableRequest.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/client/ConnectionFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/timers/request/NoOpHttpRequestAbortTaskTracker.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/SDKGlobalTime.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
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jar/com/amazonaws/http/timers/request/HttpRequestAbortTask.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/conn/ssl/MasterSecretValidators.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/SdkIOUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/SystemDefaultDnsResolver.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/DelegatingDnsResolver.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/log/JulLogFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/SdkHttpUtils.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/ReadLimitInfo.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/client/HttpClientFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/log/CommonsLog.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/DnsResolver.java

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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/conn/SdkConnectionKeepAliveStrategy.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/JavaVersionParser.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/settings/HttpClientSettings.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/SdkInternalList.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/log/JulLog.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/timers/TimeoutThreadPoolBuilder.java

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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/JsonErrorResponseHandler.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/conn/ssl/privileged/PrivilegedMasterSecretValidator.java

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jar/com/amazonaws/auth/SignerAsRequestSigner.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/ImmutableRequest.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/RequestSigner.java

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Found in path(s):

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/ResettableInputStream.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/internal/ReleasableInputStream.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/JsonParser.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/http/JsonResponseHandler.java
*
/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
jar/com/amazonaws/auth/AWS3Signer.java
* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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jar/com/amazonaws/cache/CacheLoader.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/transform/MapEntry.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/config/EndpointDiscoveryConfig.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/waiters/HttpSuccessStatusAcceptor.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/policy/internal/JsonPolicyReader.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/impl/client/SdkHttpRequestRetryHandler.java

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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/SignerFactory.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/monitoring/CsmConfigurationProviderChain.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/waiters/FixedDelayStrategy.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/util/CRC32ChecksumCalculatingInputStream.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/cache/EndpointDiscoveryCacheLoader.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/internal/DefaultServiceEndpointBuilder.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/waiters/WaiterExecutionBuilder.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/ProxyAuthenticationMethod.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/apache/request/impl/HttpGetWithBody.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/FileStoreTlsKeyManagersProvider.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/metrics/SimpleServiceMetricType.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/DefaultErrorResponseHandler.java

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/opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/retry/internal/AuthErrorRetryStrategy.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/policy/conditions/ConditionFactory.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/policy/conditions/DateCondition.java

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-

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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-
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* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/protocol/json/StructuredJsonMarshaller.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/http/AbstractFileTlsKeyManagersProvider.java

* /opt/cola/permits/2011416161_1715835324.7035437/0/aws-java-sdk-core-1-12-135-sources-jar/com/amazonaws/auth/SignerParams.java

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1.434 aws-java-sdk-sns 1.12.135

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jar/com/amazonaws/services/sns/model/KMSDisabledException.java
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* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-
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* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SignatureVerifier.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsMessageManager.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsMessageHandler.java

*

/opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsMessage.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsNotification.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/DefaultSnsMessageHandler.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsUnsubscribeConfirmation.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsUnknownMessage.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SigningCertUrlVerifier.java

*

/opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/HttpException.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/Utils.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsMessageUnmarshaller.java

* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/message/SnsSubscriptionConfirmation.java

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* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/util/SignatureChecker.java
* /opt/cola/permits/2011416081_1715835327.3146863/0/aws-java-sdk-sns-1-12-135-sources-jar/com/amazonaws/services/sns/util/package-info.java

1.435 glibc 2.31-0ubuntu9.16

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jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/2035784567_1717163175.5646207/0/jsr305-3-0-2-sources-12-
jar/javax/annotation/concurrent/GuardedBy.java
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xwd v1.0.7

xwd utility

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jopt-simple v5.0.4

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Mesa 3-D

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</pre>

# 1.438 libapt-pkg 2.0.10

## 1.438.1 Available under license :

No license file was found, but licenses were detected in source scan.

Desired=Unknown/Install/Remove/Purge/Hold

| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend

|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)

||/ Name

Version

Architecture Description

+++-----

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ii ally-profile-manager-indicator 0.1.10-0ubuntu3 amd64 Accessibility

Profile Manager - Unity desktop indicator

ii account-plugin-facebook 0.12+16.04.20160126-0ubuntu1 all GNOME

Control Center account plugin for single signon - facebook

ii account-plugin-flickr 0.12+16.04.20160126-0ubuntu1 all GNOME Control Center account plugin for single signon - flickr

ii account-plugin-google 0.12+16.04.20160126-0ubuntu1 all GNOME

Control Center account plugin for single signon

ii accountsservice 0.6.40-2ubuntu11.3 amd64 query and

|                                               |                               |                                                                          |                                            |
|-----------------------------------------------|-------------------------------|--------------------------------------------------------------------------|--------------------------------------------|
| manipulate user account information           |                               |                                                                          |                                            |
| ii acl                                        | 2.2.52-3                      | amd64                                                                    | Access control list utilities              |
| ii acpi-support<br>ACPI events                | 0.142                         | amd64                                                                    | scripts for handling many                  |
| ii acpid<br>and Power Interface event daemon  | 1:2.0.26-1ubuntu2             | amd64                                                                    | Advanced Configuration                     |
| ii activity-log-manager<br>Zeitgeist          | 0.9.7-0ubuntu23               | amd64                                                                    | blacklist configuration user interface for |
| ii adduser<br>and groups                      | 3.113+nmu3ubuntu4             | all                                                                      | add and remove users                       |
| ii adium-theme-ubuntu<br>for Ubuntu           | 0.3.4-0ubuntu1.1              | all                                                                      | Adium message style                        |
| ii adwaita-icon-theme<br>GNOME (small subset) | 3.18.0-2ubuntu3.1             | all                                                                      | default icon theme of                      |
| ii aisleriot<br>game collection               | 1:3.18.2-1ubuntu1             | amd64                                                                    | GNOME solitaire card                       |
| ii alsa-base<br>configuration files           | 1.0.25+dfsg-0ubuntu5          | all                                                                      | ALSA driver                                |
| ii alsa-utils<br>1.1.0-0ubuntu5               | amd64                         | Utilities for configuring and using ALSA                                 |                                            |
| ii anacron<br>doesn't go by time              | 2.3-23                        | amd64                                                                    | cron-like program that                     |
| ii ant                                        | 1.9.6-1ubuntu1                | all                                                                      | Java based build tool like make            |
| ii ant-optional<br>make - optional libraries  | 1.9.6-1ubuntu1                | all                                                                      | Java based build tool like                 |
| ii apg<br>Generator - Standalone version      | 2.2.3.dfsg.1-2ubuntu1         | amd64                                                                    | Automated Password                         |
| ii app-install-data<br>files)                 | 15.10                         | all                                                                      | Ubuntu applications (data                  |
| ii app-install-data-partner<br>16.04          | all                           | Application Installer (data files for partner applications/repositories) |                                            |
| ii apparmor<br>utility for AppArmor           | 2.10.95-0ubuntu2.5            | amd64                                                                    | user-space parser                          |
| ii appmenu-qt:amd64<br>menu for Qt            | 0.2.7+14.04.20140305-0ubuntu2 | amd64                                                                    | application                                |
| ii appmenu-qt5<br>menu for Qt5                | 0.3.0+16.04.20151130-0ubuntu1 | amd64                                                                    | application                                |
| ii apport<br>reports for debugging            | 2.20.1-0ubuntu2.5             | all                                                                      | automatically generate crash               |
| ii apport-gtk<br>apport crash report system   | 2.20.1-0ubuntu2.5             | all                                                                      | GTK+ frontend for the                      |
| ii apport-symptoms<br>all                     | 0.20                          |                                                                          | symptom scripts for apport                 |
| ii appstream<br>index                         | 0.9.4-1ubuntu2                | amd64                                                                    | Software component                         |
| ii apt                                        | 1.2.18                        | amd64                                                                    | commandline package manager                |
| ii apt-transport-https                        | 1.2.18                        | amd64                                                                    | https download transport                   |

|                                                                |                                    |       |                                |
|----------------------------------------------------------------|------------------------------------|-------|--------------------------------|
| for APT                                                        |                                    |       |                                |
| ii apt-utils<br>utility programs                               | 1.2.18                             | amd64 | package management related     |
| ii aptdaemon<br>package management service                     | 1.1.1+bzr982-0ubuntu14             | all   | transaction based              |
| ii aptdaemon-data<br>files for clients                         | 1.1.1+bzr982-0ubuntu14             | all   | data                           |
| ii apturl<br>apt protocol - GTK+ frontend                      | 0.5.2ubuntu11.1                    | amd64 | install packages using the     |
| ii apturl-common<br>the apt protocol - common data             | 0.5.2ubuntu11.1                    | amd64 | install packages using         |
| ii aspell<br>checker                                           | 0.60.7~20110707-3build1            | amd64 | GNU Aspell spell-              |
| ii aspell-en<br>Aspell                                         | 7.1-0-1.1                          | all   | English dictionary for GNU     |
| ii asymptote<br>language inspired by MetaPost                  | 2.37-1                             | amd64 | script-based vector graphics   |
| ii asymptote-doc<br>and examples for asymptote                 | 2.37-1                             | all   | documentation                  |
| ii at-spi2-core<br>Service Provider Interface (dbus core)      | 2.18.3-4ubuntu1                    | amd64 | Assistive Technology           |
| ii atom<br>21st Century.                                       | 1.8.0                              | amd64 | A hackable text editor for the |
| ii autotools-dev<br>config.{guess,sub} files                   | 20150820.1                         | all   | Update infrastructure for      |
| ii avahi-autoipd<br>network address configuration daemon       | 0.6.32~rc+dfsg-1ubuntu2            | amd64 | Avahi IPv4LL                   |
| ii avahi-daemon<br>mDNS/DNS-SD daemon                          | 0.6.32~rc+dfsg-1ubuntu2            | amd64 | Avahi                          |
| ii avahi-utils<br>browsing, publishing and discovery utilities | 0.6.32~rc+dfsg-1ubuntu2            | amd64 | Avahi                          |
| ii bamfdaemon<br>matching library - daemon                     | 0.5.3~bzr0+16.04.20160824-0ubuntu1 | amd64 | Window                         |
| ii baobab<br>analyzer                                          | 3.18.1-1ubuntu1                    | amd64 | GNOME disk usage               |
| ii base-files<br>miscellaneous files                           | 9.4ubuntu4.3                       | amd64 | Debian base system             |
| ii base-passwd<br>password and group files                     | 3.5.39                             | amd64 | Debian base system master      |
| ii bash<br>completion for the bash shell                       | 4.3-14ubuntu1.1                    | amd64 | GNU Bourne Again SHell         |
| ii bash-completion<br>completion for the bash shell            | 1:2.1-4.2ubuntu1.1                 | all   | programmable                   |
| ii bc<br>calculator language                                   | 1.06.95-9build1                    | amd64 | GNU bc arbitrary precision     |
| ii bind9-host<br>bundled with BIND 9.X                         | 1:9.10.3.dfsg.P4-8ubuntu1.4        | amd64 | Version of 'host'              |
| ii binfmt-support                                              | 2.1.6-1                            | amd64 | Support for extra binary       |

|                                                                           |                                    |       |                                                        |  |
|---------------------------------------------------------------------------|------------------------------------|-------|--------------------------------------------------------|--|
| formats                                                                   |                                    |       |                                                        |  |
| ii binutils<br>linker and binary utilities                                | 2.26.1-1ubuntu1~16.04.3            | amd64 | GNU assembler,                                         |  |
| ii bison<br>generator                                                     | 2:3.0.4.dfsg-1                     | amd64 | YACC-compatible parser                                 |  |
| ii blt<br>Tcl/Tk - run-time                                               | 2.5.3+dfsg-3                       | amd64 | graphics extension library for                         |  |
| ii bluez                                                                  | 5.37-0ubuntu5                      | amd64 | Bluetooth tools and daemons                            |  |
| ii bluez-cups<br>for CUPS                                                 | 5.37-0ubuntu5                      | amd64 | Bluetooth printer driver                               |  |
| ii bluez-obexd                                                            | 5.37-0ubuntu5                      | amd64 | bluez obex daemon                                      |  |
| ii brackets                                                               | 1.8.0libgcript11-17108+1~webupd8~0 | amd64 | Brackets                                               |  |
| ii branding-ubuntu<br>Ubuntu branding                                     | 0.8                                | all   | Replacement artwork with                               |  |
| ii brltty<br>person using a braille display                               | 5.3.1-2ubuntu2.1                   | amd64 | Access software for a blind                            |  |
| ii bsdmainutils<br>amd64                                                  | 9.0.6ubuntu3                       |       | collection of more utilities from FreeBSD              |  |
| ii bsduutils<br>4.4BSD-Lite                                               | 1:2.27.1-6ubuntu3.2                | amd64 | basic utilities from                                   |  |
| ii build-essential<br>build-essential packages                            | 12.1ubuntu2                        | amd64 | Informational list of                                  |  |
| ii busybox-initramfs<br>setup for initramfs                               | 1:1.22.0-15ubuntu1                 | amd64 | Standalone shell                                       |  |
| ii busybox-static<br>shell with tons of builtin utilities                 | 1:1.22.0-15ubuntu1                 | amd64 | Standalone rescue                                      |  |
| ii byacc<br>LALR Yacc parser generator                                    | 20140715-1                         | amd64 | public domain Berkeley                                 |  |
| ii bzip2<br>amd64                                                         | 1.0.6-8                            |       | high-quality block-sorting file compressor - utilities |  |
| ii ca-certificates                                                        | 20160104ubuntu1                    | all   | Common CA certificates                                 |  |
| ii ca-certificates-mono<br>certificates (Mono keystore)                   | 4.2.1.102+dfsg2-7ubuntu4           | all   | Common CA                                              |  |
| ii ccache<br>recompilation of C/C++ code                                  | 3.2.4-1                            | amd64 | Compiler cache for fast                                |  |
| ii checkbox-converged<br>Ubuntu devices                                   | 1.2.4-0ubuntu1                     | all   | testing tool for all                                   |  |
| ii checkbox-gui<br>checkbox (transitional package)                        | 1.2.4-0ubuntu1                     | all   | QML based interface for                                |  |
| ii checkinstall<br>amd64                                                  | 1.6.2-4ubuntu1                     |       | installation tracker                                   |  |
| ii cheese<br>videos from your webcam                                      | 3.18.1-2ubuntu3                    | amd64 | tool to take pictures and                              |  |
| ii cheese-common<br>Cheese tool to take pictures and videos               | 3.18.1-2ubuntu3                    | all   | Common files for the                                   |  |
| ii chromium-codecs-ffmpeg-extra<br>ffmpeg codecs for the Chromium Browser | 55.0.2883.87-0ubuntu0.16.04.1263   | amd64 | Extra                                                  |  |

|                                                                            |                                    |       |                                                               |
|----------------------------------------------------------------------------|------------------------------------|-------|---------------------------------------------------------------|
| ii clang<br>compiler (LLVM based)                                          | 1:3.8-33ubuntu3.1                  | amd64 | C, C++ and Objective-C                                        |
| ii clang-3.8<br>compiler (LLVM based)                                      | 1:3.8-2ubuntu4                     | amd64 | C, C++ and Objective-C                                        |
| ii cli-common                                                              | 0.9+nmu1                           |       |                                                               |
| all common files between all CLI packages                                  |                                    |       |                                                               |
| ii cli-common-dev<br>CLI packages                                          | 0.9+nmu1                           | all   | common files for building                                     |
| ii cmake<br>source make system                                             | 3.5.1-1ubuntu3                     | amd64 | cross-platform, open-                                         |
| ii cmake-curses-gui<br>interface for CMake (ccmake)                        | 3.5.1-1ubuntu3                     | amd64 | curses based user                                             |
| ii cmake-data<br>(modules, templates and documentation)                    | 3.5.1-1ubuntu3                     | all   | CMake data files                                              |
| ii colord<br>device colour profiles -- system daemon                       | 1.2.12-1ubuntu1                    | amd64 | system service to manage                                      |
| ii colord-data                                                             | 1.2.12-1ubuntu1                    | all   | system service to manage device colour profiles -- data files |
| ii command-not-found<br>of packages in interactive bash sessions           | 0.3ubuntu16.04.2                   | all   | Suggest installation                                          |
| ii command-not-found-data<br>for command-not-found.                        | 0.3ubuntu16.04.2                   | amd64 | Set of data files                                             |
| ii compiz<br>and compositing manager                                       | 1:0.9.12.2+16.04.20160823-0ubuntu1 | all   | OpenGL window                                                 |
| ii compiz-core<br>window and compositing manager                           | 1:0.9.12.2+16.04.20160823-0ubuntu1 | amd64 | OpenGL                                                        |
| ii compiz-gnome<br>window and compositing manager - GNOME window decorator | 1:0.9.12.2+16.04.20160823-0ubuntu1 | amd64 | OpenGL                                                        |
| ii compiz-plugins-default:amd64<br>manager - default plugins               | 1:0.9.12.2+16.04.20160823-0ubuntu1 | amd64 | OpenGL window and compositing                                 |
| ii compizconfig-settings-manager<br>configuration settings manager         | 1:0.9.12.2+16.04.20160823-0ubuntu1 | all   | Compiz                                                        |
| ii console-setup<br>setup program                                          | 1.108ubuntu15.2                    | all   | console font and keymap                                       |
| ii console-setup-linux<br>console-setup                                    | 1.108ubuntu15.2                    | all   | Linux specific part of                                        |
| ii coreutils                                                               | 8.25-2ubuntu2                      | amd64 | GNU core utilities                                            |
| ii cpio<br>to manage archives of files                                     | 2.11+dfsg-5ubuntu1                 | amd64 | GNU cpio -- a program                                         |
| ii cpp                                                                     | 4:5.3.1-1ubuntu1                   | amd64 | GNU C preprocessor (cpp)                                      |
| ii cpp-4.9                                                                 | 4.9.3-13ubuntu2                    | amd64 | GNU C preprocessor                                            |
| ii cpp-5                                                                   | 5.4.0-6ubuntu1~16.04.4             | amd64 | GNU C preprocessor                                            |
| ii cracklib-runtime<br>password checker library cracklib2                  | 2.9.2-1build2                      | amd64 | runtime support for                                           |
| ii crda<br>Domain Agent                                                    | 3.13-1                             | amd64 | wireless Central Regulatory                                   |

|                                                                       |                   |       |                                      |
|-----------------------------------------------------------------------|-------------------|-------|--------------------------------------|
| ii cron                                                               | 3.0p11-128ubuntu2 | amd64 | process scheduling                   |
| daemon                                                                |                   |       |                                      |
| ii cryptsetup                                                         | 2:1.6.6-5ubuntu2  | amd64 |                                      |
| disk encryption support - startup scripts                             |                   |       |                                      |
| ii cryptsetup-bin                                                     | 2:1.6.6-5ubuntu2  | amd64 | disk encryption                      |
| support - command line tools                                          |                   |       |                                      |
| ii cups                                                               | 2.1.3-4           | amd64 | Common UNIX Printing                 |
| System(tm) - PPD/driver support, web interface                        |                   |       |                                      |
| ii cups-backend-bjnp                                                  | 2.0-0ubuntu2      | amd64 | printer backend for                  |
| Canon BJNP protocol                                                   |                   |       |                                      |
| ii cups-browsed                                                       | 1.8.3-2ubuntu3.1  | amd64 | OpenPrinting CUPS                    |
| Filters - cups-browsed                                                |                   |       |                                      |
| ii cups-bsd                                                           | 2.1.3-4           | amd64 | Common UNIX Printing                 |
| System(tm) - BSD commands                                             |                   |       |                                      |
| ii cups-client                                                        | 2.1.3-4           |       |                                      |
| amd64 Common UNIX Printing System(tm) - client programs (SysV)        |                   |       |                                      |
| ii cups-common                                                        | 2.1.3-4           | all   | Common UNIX Printing                 |
| System(tm) - common files                                             |                   |       |                                      |
| ii cups-core-drivers                                                  | 2.1.3-4           | amd64 | Common UNIX Printing                 |
| System(tm) - PPD-less printing                                        |                   |       |                                      |
| ii cups-daemon                                                        | 2.1.3-4           | amd64 | Common UNIX Printing                 |
| System(tm) - daemon                                                   |                   |       |                                      |
| ii cups-filters                                                       | 1.8.3-2ubuntu3.1  | amd64 | OpenPrinting CUPS                    |
| Filters - Main Package                                                |                   |       |                                      |
| ii cups-filters-core-drivers                                          | 1.8.3-2ubuntu3.1  | amd64 | OpenPrinting CUPS                    |
| Filters - PPD-less printing                                           |                   |       |                                      |
| ii cups-pk-helper                                                     | 0.2.5-2ubuntu2    |       |                                      |
| amd64 PolicyKit helper to configure cups with fine-grained privileges |                   |       |                                      |
| ii cups-ppdc                                                          | 2.1.3-4           | amd64 | Common UNIX Printing                 |
| System(tm) - PPD manipulation utilities                               |                   |       |                                      |
| ii cups-server-common                                                 | 2.1.3-4           | all   | Common UNIX Printing                 |
| System(tm) - server common files                                      |                   |       |                                      |
| ii curl                                                               | 7.47.0-1ubuntu2.2 | amd64 | command line tool for                |
| transferring data with URL syntax                                     |                   |       |                                      |
| ii dash                                                               | 0.5.8-2.1ubuntu2  | amd64 | POSIX-compliant shell                |
| ii dbus                                                               | 1.10.6-1ubuntu3.3 | amd64 | simple interprocess                  |
| messaging system (daemon and utilities)                               |                   |       |                                      |
| ii dbus-x11                                                           | 1.10.6-1ubuntu3.3 | amd64 | simple interprocess messaging system |
| (X11 deps)                                                            |                   |       |                                      |
| ii dc                                                                 | 1.06.95-9build1   | amd64 | GNU dc arbitrary precision           |
| reverse-polish calculator                                             |                   |       |                                      |
| ii dconf-cli                                                          | 0.24.0-2          | amd64 | simple configuration storage         |
| system - utilities                                                    |                   |       |                                      |
| ii dconf-gsettings-backend:amd64                                      | 0.24.0-2          | amd64 | simple                               |
| configuration storage system - GSettings back-end                     |                   |       |                                      |
| ii dconf-gsettings-backend:i386                                       | 0.24.0-2          | i386  | simple configuration                 |
| storage system - GSettings back-end                                   |                   |       |                                      |

|                                             |                             |       |                                 |
|---------------------------------------------|-----------------------------|-------|---------------------------------|
| ii dconf-service                            | 0.24.0-2                    | amd64 | simple configuration            |
| storage system - D-Bus service              |                             |       |                                 |
| ii debconf                                  | 1.5.58ubuntu1               | all   | Debian configuration            |
| management system                           |                             |       |                                 |
| ii debconf-i18n                             | 1.5.58ubuntu1               | all   | full internationalization       |
| support for debconf                         |                             |       |                                 |
| ii debhelper                                | 9.20160115ubuntu3           | all   | helper programs for             |
| debian/rules                                |                             |       |                                 |
| ii debianutils                              | 4.7                         | amd64 | Miscellaneous utilities         |
| specific to Debian                          |                             |       |                                 |
| ii deja-dup                                 | 34.2-0ubuntu1.1             | amd64 | Back up your files              |
| ii deja-dup-backend-gvfs                    | 34.2-0ubuntu1.1             | all   | Remote server                   |
| support for Déjà Dup                        |                             |       |                                 |
| ii desktop-file-utils                       | 0.22-1ubuntu5               | amd64 | Utilities for .desktop files    |
|                                             |                             |       |                                 |
| ii dh-python                                | 2.20151103ubuntu1.1         | all   | Debian helper tools for         |
| packaging Python libraries and applications |                             |       |                                 |
| ii dh-strip-nondeterminism                  | 0.015-1                     | all   | debhelper add-on to strip       |
| non-determinism from files                  |                             |       |                                 |
| ii dictionaries-common                      | 1.26.3                      | all   | spelling dictionaries -         |
| common utilities                            |                             |       |                                 |
| ii diffstat                                 | 1.61-1                      | amd64 | produces graph of changes       |
| introduced by a diff file                   |                             |       |                                 |
| ii diffutils                                | 1:3.3-3                     | amd64 | File comparison utilities       |
| ii dirmngr                                  | 2.1.11-6ubuntu2             | amd64 | server for managing certificate |
| revocation lists                            |                             |       |                                 |
| ii distro-info-data                         | 0.28ubuntu0.2               | all   | information about the           |
| distributions' releases (data files)        |                             |       |                                 |
| ii dmidecode                                | 3.0-2ubuntu0.1              | amd64 | SMBIOS/DMI table                |
| decoder                                     |                             |       |                                 |
| ii dmsetup                                  | 2:1.02.110-1ubuntu10        | amd64 | Linux Kernel Device             |
| Mapper userspace library                    |                             |       |                                 |
| ii dmz-cursor-theme                         | 0.4.4ubuntu1                | all   | Style neutral, scalable         |
| cursor theme                                |                             |       |                                 |
| ii dns-root-data                            | 2015052300+h+1              | all   | DNS root data including         |
| root zone and DNSSEC key                    |                             |       |                                 |
| ii dnsmasq-base                             | 2.75-1ubuntu0.16.04.1       | amd64 | Small caching DNS proxy and     |
| DHCP/TFTP server                            |                             |       |                                 |
| ii dnstools                                 | 1:9.10.3.dfsg.P4-8ubuntu1.4 | amd64 | Clients provided with           |
| BIND                                        |                             |       |                                 |
| ii doc-base                                 | 0.10.7                      | all   | utilities to manage online      |
| documentation                               |                             |       |                                 |
| ii docutils-common                          | 0.12+dfsg-1                 | all   | text processing system          |
| for reStructuredText - common data          |                             |       |                                 |
| ii docutils-doc                             | 0.12+dfsg-1                 | all   | text processing system for      |
| reStructuredText - documentation            |                             |       |                                 |

|                                                                                                 |                             |       |                                                   |
|-------------------------------------------------------------------------------------------------|-----------------------------|-------|---------------------------------------------------|
| ii dosfstools<br>checking MS-DOS<br>FAT filesystems                                             | 3.0.28-2ubuntu0.1           | amd64 | utilities for making and                          |
| ii dpkg<br>management system                                                                    | 1.18.4ubuntu1.1             | amd64 | Debian package                                    |
| ii dpkg-dev<br>development tools                                                                | 1.18.4ubuntu1.1             | all   | Debian package                                    |
| ii dropbox<br>engine - CLI and Nautilus extension                                               | 2015.10.28                  | amd64 | cloud synchronization                             |
| ii duplicity<br>efficient backup                                                                | 0.7.06-2ubuntu2             | amd64 | encrypted bandwidth-                              |
| ii e2fslibs:amd64<br>system libraries                                                           | 1.42.13-1ubuntu1            | amd64 | ext2/ext3/ext4 file                               |
| ii e2fsprogs<br>system utilities                                                                | 1.42.13-1ubuntu1            | amd64 | ext2/ext3/ext4 file                               |
| ii ecryptfs-utils<br>(utilities)                                                                | 1:1.0ubuntu1.1              | amd64 | ecryptfs cryptographic filesystem                 |
| ii ed                                                                                           | 1.10-2                      | amd64 | classic UNIX line editor                          |
| ii efibootmgr<br>Manager                                                                        | 0.12-4                      | amd64 | Interact with the EFI Boot                        |
| ii eject<br>operates CD-Changers under Linux                                                    | 2.1.5+deb1+cvs20081104-13.1 | amd64 | ejects CDs and                                    |
| ii emacsen-common<br>emacsen                                                                    | 2.0.8                       | all   | Common facilities for all                         |
| ii enchant:i386<br>checker engines (binary programs)                                            | 1.6.0-10.1build2            | i386  | Wrapper for various spell                         |
| ii eog<br>program                                                                               | 3.18.2-1ubuntu2.1           | amd64 | Eye of GNOME graphics viewer                      |
| ii espeak-data:amd64<br>software speech synthesizer: speech data files                          | 1.48.04+dfsg-2              | amd64 | Multi-lingual                                     |
| ii ethtool<br>device settings                                                                   | 1:4.5-1                     | amd64 | display or change Ethernet                        |
| ii evince<br>PDF) viewer                                                                        | 3.18.2-1ubuntu4             | amd64 | Document (PostScript,                             |
| ii evince-common<br>PDF) viewer - common files                                                  | 3.18.2-1ubuntu4             | all   | Document (PostScript,                             |
| ii evolution-data-server<br>backend server                                                      | 3.18.5-1ubuntu1             | amd64 | evolution database                                |
| ii evolution-data-server-common<br>Server                                                       | 3.18.5-1ubuntu1             | all   | architecture independent files for Evolution Data |
| ii evolution-data-server-online-accounts<br>data server integration with Ubuntu Online Accounts | 3.18.5-1ubuntu1             | amd64 | evolution                                         |
| ii example-content                                                                              | 49                          | all   | Ubuntu example content                            |
| ii exuberant-ctags<br>indexes of source code definitions                                        | 1:5.9~svn20110310-11        | amd64 | build tag file                                    |

|                                                               |                                |                                           |                             |
|---------------------------------------------------------------|--------------------------------|-------------------------------------------|-----------------------------|
| ii fakeroot<br>superuser privileges                           | 1.20.2-1ubuntu1                | amd64                                     | tool for simulating         |
| ii file<br>"magic" numbers                                    | 1:5.25-2ubuntu1                | amd64                                     | Determines file type using  |
| ii file-roller                                                | 3.16.5-0ubuntu1.2              | amd64                                     | archive manager for GNOME   |
| ii findutils<br>files--find, xargs                            | 4.6.0+git+20160126-2           | amd64                                     | utilities for finding       |
| ii firefox<br>browser from Mozilla                            | 51.0.1+build2-0ubuntu0.16.04.2 | amd64                                     | Safe and easy web           |
| ii firefox-locale-en<br>language pack for Firefox             | 51.0.1+build2-0ubuntu0.16.04.2 | amd64                                     | English                     |
| ii firefox-locale-it<br>pack for Firefox                      | 51.0.1+build2-0ubuntu0.16.04.2 | amd64                                     | Italian language            |
| ii flashplugin-installer<br>Player plugin installer           | 24.0.0.194ubuntu0.16.04.1      | amd64                                     | Adobe Flash                 |
| ii flex<br>2.6.0-11                                           | amd64                          | fast lexical analyzer generator           |                             |
| ii fontconfig<br>configuration library - support binaries     | 2.11.94-0ubuntu1.1             | amd64                                     | generic font                |
| ii fontconfig-config<br>configuration library - configuration | 2.11.94-0ubuntu1.1             | all                                       | generic font                |
| ii fonts-dejavu-core<br>with additional characters            | 2.35-1                         | all                                       | Vera font family derivate   |
| ii fonts-font-awesome<br>use with Twitter Bootstrap           | 4.5.0~dfsg-1                   | all                                       | iconic font designed for    |
| ii fonts-freefont-ttf<br>Mono Truetype fonts                  | 20120503-4                     | all                                       | Freefont Serif, Sans and    |
| ii fonts-guru<br>2:1.2                                        | all                            | Meta package to install all Punjabi fonts |                             |
| ii fonts-guru-extra<br>language                               | 2.0-3                          | all                                       | Free fonts for Punjabi      |
| ii fonts-kacst<br>Arabic fonts                                | 2.01+mry-12                    | all                                       | KACST free TrueType         |
| ii fonts-kacst-one<br>for Arabic language                     | 5.0+svn11846-7                 | all                                       | TrueType font designed      |
| ii fonts-khmeros-core<br>for the Khmer language of Cambodia   | 5.0-7ubuntu1                   | all                                       | KhmerOS Unicode fonts       |
| ii fonts-lao<br>language                                      | 0.0.20060226-9                 | all                                       | TrueType font for Lao       |
| ii fonts-lato<br>2.0-1                                        | all                            | sans-serif typeface family font           |                             |
| ii fonts-liberation<br>as Times, Arial and Courier            | 1.07.4-1                       | all                                       | Fonts with the same metrics |
| ii fonts-lklug-sinhala<br>Lanka Linux User Group              | 0.6-3                          | all                                       | Unicode Sinhala font by     |
| ii fonts-lmodern<br>Computer Modern                           | 2.004.5-1                      | all                                       | OpenType fonts based on     |

|    |                                                                          |                            |     |                                                           |
|----|--------------------------------------------------------------------------|----------------------------|-----|-----------------------------------------------------------|
| ii | fonts-lohit-guru<br>Punjabi Language                                     | 2.5.3-2                    | all | Lohit TrueType font for                                   |
| ii | fonts-lyx<br>fonts used by LyX                                           | 2.1.4-2                    | all | TrueType versions of some TeX                             |
| ii | fonts-nanum<br>20140930-1                                                | all                        |     | Nanum Korean fonts                                        |
| ii | fonts-noto-cjk<br>families with large Unicode coverage (CJK)             | 1:1.004+repack2-1~ubuntu1  | all | "No Tofu" font                                            |
| ii | fonts-opensymbol<br>TrueType font                                        | 2:102.7+LibO5.1.4-0ubuntu1 | all | OpenSymbol                                                |
| ii | fonts-sil-abyssinica<br>Ethiopian and Erythrean scripts (Amharic et al.) | 1.500-1                    | all | smart Unicode font for                                    |
| ii | fonts-sil-padauk<br>languages in Myanmar                                 | 2.80-2                     | all | smart Unicode font for                                    |
| ii | fonts-stix<br>Information eXchange fonts                                 | 1.1.1-4                    | all | Scientific and Technical                                  |
| ii | fonts-symbola<br>2.59-1                                                  | all                        |     | symbolic font providing emoji characters from Unicode 7.0 |
| ii | fonts-takao-pgothic<br>font set, Takao P Gothic Fonts                    | 003.02.01-9ubuntu3         | all | Japanese TrueType                                         |
| ii | fonts-texgyre<br>URW Fonts                                               | 20150923-1                 | all | OpenType fonts based on                                   |
| ii | fonts-thai-tlwg<br>TLWG (metapackage)                                    | 1:0.6.2-2.1                | all | Thai fonts maintained by                                  |
| ii | fonts-tibetan-machine<br>Dzongkha and Ladakhi (OpenType Unicode)         | 1.901b-5                   | all | font for Tibetan,                                         |
| ii | fonts-tlwg-garuda<br>(dependency package)                                | 1:0.6.2-2.1                | all | Thai Garuda font                                          |
| ii | fonts-tlwg-garuda-ttf<br>1:0.6.2-2.1                                     | all                        |     | Thai Garuda TrueType font                                 |
| ii | fonts-tlwg-kinnari<br>(dependency package)                               | 1:0.6.2-2.1                | all | Thai Kinnari font                                         |
| ii | fonts-tlwg-kinnari-ttf<br>font                                           | 1:0.6.2-2.1                | all | Thai Kinnari TrueType                                     |
| ii | fonts-tlwg-laksaman<br>(dependency package)                              | 1:0.6.2-2.1                | all | Thai Laksaman font                                        |
| ii | fonts-tlwg-laksaman-ttf<br>font                                          | 1:0.6.2-2.1                | all | Thai Laksaman TrueType                                    |
| ii | fonts-tlwg-loma<br>(dependency package)                                  | 1:0.6.2-2.1                | all | Thai Loma font                                            |
| ii | fonts-tlwg-loma-ttf<br>all                                               | 1:0.6.2-2.1                |     | Thai Loma TrueType font                                   |
| ii | fonts-tlwg-mono<br>(dependency package)                                  | 1:0.6.2-2.1                | all | Thai TlwgMono font                                        |
| ii | fonts-tlwg-mono-ttf<br>font                                              | 1:0.6.2-2.1                | all | Thai TlwgMono TrueType                                    |
| ii | fonts-tlwg-norasi<br>(dependency package)                                | 1:0.6.2-2.1                | all | Thai Norasi font                                          |

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| ii fonts-tlwg-norasi-ttf                                                                      | 1:0.6.2-2.1       | all   | Thai Norasi TrueType font               |
| ii fonts-tlwg-purisa<br>(dependency package)                                                  | 1:0.6.2-2.1       | all   | Thai Purisa font                        |
| ii fonts-tlwg-purisa-ttf                                                                      | 1:0.6.2-2.1       | all   | Thai Purisa TrueType font               |
| ii fonts-tlwg-sawasdee<br>1:0.6.2-2.1                                                         | all               |       | Thai Sawasdee font (dependency package) |
| ii fonts-tlwg-sawasdee-ttf<br>font                                                            | 1:0.6.2-2.1       | all   | Thai Sawasdee TrueType font             |
| ii fonts-tlwg-typewriter<br>(dependency package)                                              | 1:0.6.2-2.1       | all   | Thai TlwgTypewriter font                |
| ii fonts-tlwg-typewriter-ttf<br>TrueType font                                                 | 1:0.6.2-2.1       | all   | Thai TlwgTypewriter                     |
| ii fonts-tlwg-typist<br>(dependency package)                                                  | 1:0.6.2-2.1       | all   | Thai TlwgTypist font                    |
| ii fonts-tlwg-typist-ttf<br>font                                                              | 1:0.6.2-2.1       | all   | Thai TlwgTypist TrueType font           |
| ii fonts-tlwg-typo<br>1:0.6.2-2.1                                                             | all               |       | Thai TlwgTypo font (dependency package) |
| ii fonts-tlwg-typo-ttf<br>font                                                                | 1:0.6.2-2.1       | all   | Thai TlwgTypo TrueType font             |
| ii fonts-tlwg-umpush<br>(dependency package)                                                  | 1:0.6.2-2.1       | all   | Thai Umpush font                        |
| ii fonts-tlwg-umpush-ttf<br>font                                                              | 1:0.6.2-2.1       | all   | Thai Umpush TrueType font               |
| ii fonts-tlwg-waree<br>(dependency package)                                                   | 1:0.6.2-2.1       | all   | Thai Waree font                         |
| ii fonts-tlwg-waree-ttf                                                                       | 1:0.6.2-2.1       | all   | Thai Waree TrueType font                |
| ii foomatic-db-compressed-ppds<br>printer support - Compressed PPDs derived from the database | 20160212-0ubuntu1 |       | all OpenPrinting                        |
| ii fortune-mod<br>on demand                                                                   | 1:1.99.1-7        | amd64 | provides fortune cookies                |
| ii fortunes-min<br>fortune cookies                                                            | 1:1.99.1-7        | all   | Data files containing selected          |
| ii freeglut3:amd64                                                                            | 2.8.1-2           | amd64 | OpenGL Utility Toolkit                  |
| ii freepats<br>synthesis                                                                      | 20060219-1        | all   | Free patch set for MIDI audio           |
| ii friendly-recovery<br>friendly                                                              | 0.2.31            | all   | Make recovery more user-                |
| ii ftp<br>client                                                                              | 0.17-33           | amd64 | classical file transfer                 |
| ii fuse                                                                                       | 2.9.4-1ubuntu3.1  | amd64 | Filesystem in Userspace                 |
| ii fwupd                                                                                      | 0.7.0-0ubuntu4.3  | amd64 | Firmware update daemon                  |
| ii fwupdate<br>firmware updates                                                               | 0.5-2ubuntu4      | amd64 | Tools to manage UEFI                    |
| ii fwupdate-signed<br>Updater EFI signed binary                                               | 1.11+0.5-2ubuntu4 | amd64 | Linux Firmware                          |
| ii g++                                                                                        | 4:5.3.1-1ubuntu1  | amd64 | GNU C++ compiler                        |
| ii g++-4.9                                                                                    | 4.9.3-13ubuntu2   | amd64 | GNU C++ compiler                        |

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|-----------------------------------------------------|-------------------------------|-------|----------------------------------|
| ii g++-5                                            | 5.4.0-6ubuntu1~16.04.4        |       |                                  |
| amd64 GNU C++ compiler                              |                               |       |                                  |
| ii gcc                                              | 4:5.3.1-1ubuntu1              | amd64 | GNU C compiler                   |
| ii gcc-4.9                                          | 4.9.3-13ubuntu2               | amd64 | GNU C compiler                   |
| ii gcc-4.9-base:amd64                               | 4.9.3-13ubuntu2               | amd64 | GCC, the GNU                     |
| Compiler Collection (base package)                  |                               |       |                                  |
| ii gcc-5                                            | 5.4.0-6ubuntu1~16.04.4        | amd64 | GNU C compiler                   |
| ii gcc-5-base:amd64                                 | 5.4.0-6ubuntu1~16.04.4        | amd64 | GCC, the GNU                     |
| Compiler Collection (base package)                  |                               |       |                                  |
| ii gcc-5-base:i386                                  | 5.4.0-6ubuntu1~16.04.4        | i386  | GCC, the GNU                     |
| Compiler Collection (base package)                  |                               |       |                                  |
| ii gcc-6-base:amd64                                 | 6.0.1-0ubuntu1                | amd64 | GCC, the GNU Compiler Collection |
| (base package)                                      |                               |       |                                  |
| ii gcc-6-base:i386                                  | 6.0.1-0ubuntu1                | i386  | GCC, the GNU                     |
| Compiler Collection (base package)                  |                               |       |                                  |
| ii gconf-service                                    | 3.2.6-3ubuntu6                | amd64 | GNOME configuration              |
| database system (D-Bus service)                     |                               |       |                                  |
| ii gconf-service-backend                            | 3.2.6-3ubuntu6                | amd64 | GNOME                            |
| configuration database system (D-Bus service)       |                               |       |                                  |
| ii gconf2                                           | 3.2.6-3ubuntu6                | amd64 | GNOME configuration              |
| database system (support tools)                     |                               |       |                                  |
| ii gconf2-common                                    | 3.2.6-3ubuntu6                | all   | GNOME configuration              |
| database system                                     |                               |       |                                  |
| (common files)                                      |                               |       |                                  |
| ii gcr                                              | 3.18.0-1ubuntu1               | amd64 | GNOME crypto services            |
| (daemon and tools)                                  |                               |       |                                  |
| ii gdb                                              | 7.11.1-0ubuntu1~16.04         | amd64 | GNU Debugger                     |
| ii gdbserver                                        | 7.11.1-0ubuntu1~16.04         | amd64 | GNU Debugger                     |
| (remote server)                                     |                               |       |                                  |
| ii gdisk                                            | 1.0.1-1build1                 | amd64 | GPT fdisk text-mode              |
| partitioning tool                                   |                               |       |                                  |
| ii gedit                                            | 3.18.3-0ubuntu4               | amd64 | official text editor of the      |
| GNOME desktop environment                           |                               |       |                                  |
| ii gedit-common                                     | 3.18.3-0ubuntu4               | all   | official text editor of the      |
| GNOME desktop environment (support files)           |                               |       |                                  |
| ii                                                  |                               |       |                                  |
| genisoimage                                         | 9:1.1.11-3ubuntu1             | amd64 | Creates ISO-9660 CD-             |
| ROM filesystem images                               |                               |       |                                  |
| ii geoclue                                          | 0.12.99-4ubuntu1              | amd64 | Geographic information           |
| framework                                           |                               |       |                                  |
| ii geoclue-ubuntu-geoip                             | 1.0.2+14.04.20131125-0ubuntu2 | amd64 | Provide                          |
| positioning for GeoClue via Ubuntu GeoIP services   |                               |       |                                  |
| ii geogebra                                         | 4.0.34.0+dfsg1-3              | all   | Dynamic mathematics              |
| software for education                              |                               |       |                                  |
| ii geoip-database                                   | 20160408-1                    | all   | IP lookup command line           |
| tools that use the GeoIP library (country database) |                               |       |                                  |
| ii gettext                                          | 0.19.7-2ubuntu3               | amd64 | GNU Internationalization         |

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|----------------------------------------------------|---------------------------------|-------|-------------------------------------------------------------------|
| utilities                                          |                                 |       |                                                                   |
| ii gettext-base                                    | 0.19.7-2ubuntu3                 | amd64 | GNU                                                               |
| Internationalization utilities for the base system |                                 |       |                                                                   |
| ii gfortran compiler                               | 4:5.3.1-1ubuntu1                | amd64 | GNU Fortran 95                                                    |
| ii gfortran-5 compiler                             | 5.4.0-6ubuntu1~16.04.4          | amd64 | GNU Fortran                                                       |
| ii ghostscript                                     | 9.18~dfsg~0-0ubuntu2.3          | amd64 | interpreter for the PostScript language and for PDF               |
| ii ghostscript-x                                   | 9.18~dfsg~0-0ubuntu2.3          | amd64 | interpreter for the PostScript language and for PDF - X11 support |
| ii gir1.2-accounts-1.0:amd64                       | 1.21+16.04.20160222-0ubuntu1    | amd64 | typelib file for libaccounts-glib0                                |
| ii gir1.2-appindicator3-0.1                        | 12.10.1+15.04.20141110-0ubuntu1 | amd64 | Typelib files for libappindicator3-1.                             |
| ii gir1.2-atk-1.0                                  | 2.18.0-1                        | amd64 | ATK accessibility toolkit (GObject introspection)                 |
| ii gir1.2-atspi-2.0                                | 2.18.3-4ubuntu1                 | amd64 | Assistive Technology Service Provider (GObject introspection)     |
| ii gir1.2-dbusmenu-glib-0.4:amd64                  | 16.04.1+16.04.20160927-0ubuntu1 | amd64 | typelib file for libdbusmenu-glib4                                |
| ii gir1.2-dee-1.0                                  | 1.2.7+15.04.20150304-0ubuntu2   | amd64 | GObject introspection data for the Dee library                    |
| ii gir1.2-freedesktop:amd64                        | 1.46.0-3ubuntu1                 | amd64 | Introspection data for some FreeDesktop components                |
| ii gir1.2-gdata-0.0:amd64                          | 0.17.4-1                        | amd64 | GObject introspection data for the GData webservices library      |
| ii gir1.2-gdkpixbuf-2.0:amd64                      | 2.32.2-1ubuntu1.2               | amd64 | GDK Pixbuf library - GObject-Introspection                        |
| ii gir1.2-glib-2.0:amd64                           | 1.46.0-3ubuntu1                 | amd64 | Introspection data for GLib, GObject, Gio and GModule             |
| ii gir1.2-gnomekeyring-1.0                         | 3.12.0-1build1                  | amd64 | GNOME keyring services library - introspection data               |
| ii gir1.2-goa-1.0:amd64                            | 3.18.3-1ubuntu2                 | amd64 | Introspection data for GNOME Online Accounts                      |
| ii gir1.2-gst-plugins-base-1.0                     | 1.8.2-1ubuntu0.2                | amd64 | GObject introspection data for the GStreamer Plugins Base library |
| ii gir1.2-gstreamer-1.0                            | 1.8.2-1~ubuntu1                 | amd64 | GObject introspection data for the GStreamer library              |
| ii gir1.2-gtk-2.0                                  | 2.24.30-1ubuntu1                | amd64 | GTK+ graphical user interface library -- gir bindings             |
| ii gir1.2-gtk-3.0:amd64                            | 3.18.9-1ubuntu3.1               | amd64 | GTK+ graphical user interface library -- gir bindings             |
| ii gir1.2-gtksource-3.0:amd64                      | 3.18.2-1                        | amd64 | gir files for the GTK+ syntax highlighting widget                 |
| ii gir1.2-gudev-1.0:amd64                          | 1:230-2                         | amd64 | libgudev-1.0 introspection data                                   |

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| ii gir1.2-ibus-1.0:amd64              | 1.5.11-1ubuntu2                 | amd64 | Intelligent Input Bus - introspection data                                 |
| ii gir1.2-javascriptcoregtk-4.0:amd64 | 2.14.3-0ubuntu0.16.04.1         | amd64 | JavaScript engine library from WebKitGTK+ - GObject introspection data     |
| ii gir1.2-json-1.0:amd64              | 1.1.2-0ubuntu1                  | amd64 | GLib JSON manipulation library (introspection data)                        |
| ii gir1.2-notify-0.7                  | 0.7.6-2svn1                     | amd64 | sends desktop notifications to a notification daemon (Introspection files) |
| ii gir1.2-packagekitglib-1.0          | 0.8.17-4ubuntu6~gcc5.4ubuntu1.1 | amd64 | GObject introspection data for the PackageKit GLib library                 |
| ii gir1.2-pango-1.0:amd64             | 1.38.1-1                        | amd64 | Layout and rendering of internationalized text - gir bindings              |
| ii gir1.2-peas-1.0:amd64              | 1.16.0-1ubuntu2                 | amd64 | Application plugin library (introspection files)                           |
| ii gir1.2-rb-3.0:amd64                | 3.3-1ubuntu7                    | amd64 | GObject introspection data for the rhythmbox music player                  |
| ii gir1.2-secret-1:amd64              | 0.18.4-1ubuntu2                 | amd64 | Secret store (GObject-Introspection)                                       |
| ii gir1.2-signon-1.0                  | 1.13+16.04.20151209.1-0ubuntu1  | amd64 | GObject introspection data for the Signon library                          |
| ii gir1.2-soup-2.4                    | 2.52.2-1ubuntu0.1               | amd64 | GObject introspection data for the libsoup HTTP library                    |
| ii gir1.2-totem-1.0:amd64             | 3.18.1-1ubuntu4                 | amd64 | GObject introspection data for Totem media player                          |
| ii gir1.2-totem-plparser-1.0:amd64    | 3.10.6-1ubuntu1                 | amd64 | GObject introspection data for the Totem Playlist Parser library           |
| ii gir1.2-udisks-2.0:amd64            | 2.1.7-1ubuntu1                  | amd64 | GObject based library to access udisks2 - introspection data               |
| ii gir1.2-unity-5.0:amd64             | 7.1.4+16.04.20160701-0ubuntu1   | amd64 | GObject introspection data for the Unity library                           |
| ii gir1.2-vte-2.91:amd64              | 0.42.5-1ubuntu1                 | amd64 | GObject introspection data for the VTE library                             |
| ii gir1.2-webkit2-4.0:amd64           | 2.14.3-0ubuntu0.16.04.1         | amd64 | Web content engine library for GTK+ - GObject introspection data           |
| ii gir1.2-wnck-3.0:amd64              | 3.14.1-2                        | amd64 | GObject introspection data for the WNCK library                            |
| ii git                                | 1:2.7.4-0ubuntu1                | amd64 | fast, scalable, distributed revision control system                        |
| ii git-man                            | 1:2.7.4-0ubuntu1                | all   | fast, scalable, distributed revision control system (manual pages)         |
| ii gkbd-capplet                       | 3.6.0-1ubuntu2                  | amd64 | GNOME control center tools for libgnomekbd                                 |
| ii glib-networking:amd64              | 2.48.2-1~ubuntu16.04.1          | amd64 | network-related giomodules for GLib                                        |
| ii glib-networking:i386               | 2.48.2-1~ubuntu16.04.1          | i386  | network-related giomodules                                                 |

|                                                                        |                                               |       |       |                                               |
|------------------------------------------------------------------------|-----------------------------------------------|-------|-------|-----------------------------------------------|
| for GLib                                                               |                                               |       |       |                                               |
| ii glib-networking-common<br>giomodules for GLib - data files          | 2.48.2-1~ubuntu16.04.1                        |       | all   | network-related                               |
| ii glib-networking-services<br>giomodules for GLib - D-Bus services    | 2.48.2-1~ubuntu16.04.1                        |       | amd64 | network-related                               |
| ii gnome-accessibility-themes<br>themes for the GNOME desktop          | 3.18.0-2ubuntu1                               |       | all   | Accessibility                                 |
| ii gnome-bluetooth<br>tools                                            | 3.18.2-1ubuntu2                               |       | amd64 | GNOME Bluetooth                               |
| ii gnome-calculator<br>calculator                                      | 1:3.18.3-0ubuntu1.16.04.1                     |       | amd64 | GNOME desktop                                 |
| ii gnome-calendar<br>for GNOME                                         | 3.20.4-0ubuntu0.1                             |       | amd64 | Calendar application                          |
| ii gnome-desktop3-data                                                 | 3.18.2-1ubuntu1                               | all   |       | Common files for GNOME desktop apps           |
| ii gnome-disk-utility<br>configure disk drives and media               | 3.18.3.1-1ubuntu1                             |       | amd64 | manage and                                    |
| ii gnome-font-viewer<br>GNOME                                          | 3.16.2-1ubuntu1                               |       | amd64 | font viewer for                               |
| ii gnome-keyring<br>services (daemon and tools)                        | 3.18.3-0ubuntu2                               |       | amd64 | GNOME keyring                                 |
| ii gnome-mahjongg<br>game for GNOME                                    | 1:3.18.0-1                                    |       | amd64 | classic Eastern tile                          |
| ii gnome-menus<br>implementation of the freedesktop menu specification | 3.13.3-6ubuntu3.1                             |       | amd64 | GNOME                                         |
| ii gnome-mines                                                         | 1:3.18.2-2                                    | amd64 |       | popular minesweeper puzzle game for GNOME     |
| ii gnome-orca                                                          | 3.18.2-1ubuntu3                               |       | all   | Scriptable screen reader                      |
| ii gnome-power-manager<br>management tool for the GNOME desktop        | 3.18.0-1ubuntu1                               |       | amd64 | power                                         |
| ii gnome-screensaver<br>saver and locker                               | 3.6.1-7ubuntu4                                |       | amd64 | GNOME screen                                  |
| ii gnome-screenshot<br>application for GNOME                           | 3.18.0-1ubuntu2                               |       | amd64 | screenshot                                    |
| ii gnome-session-bin<br>Session Manager - Minimal runtime              | 3.18.1.2-1ubuntu1.16.04.2                     |       | amd64 | GNOME                                         |
| ii gnome-session-canberra                                              | 0.30-2.1ubuntu1                               | amd64 |       | GNOME session log in and log out sound events |
| ii gnome-session-common<br>Session Manager - common files              | 3.18.1.2-1ubuntu1.16.04.2                     |       | all   | GNOME                                         |
| ii gnome-settings-daemon-schemas<br>daemon schemas                     | 3.18.2-0ubuntu3.1                             |       | all   | gnome-settings-                               |
| ii gnome-software<br>Software Center for GNOME                         | 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 | amd64 |       |                                               |
| ii gnome-software-common<br>Software Center for GNOME (common files)   | 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 | all   |       |                                               |
| ii gnome-sudoku<br>for GNOME                                           | 1:3.18.4-0ubuntu2                             |       | amd64 | Sudoku puzzle game                            |

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| ii | gnome-system-log<br>GNOME                                                          | 3.9.90-4                      | amd64 | system log viewer for                     |
| ii | gnome-system-monitor<br>system resource monitor for GNOME                          | 3.18.2-1ubuntu1               | amd64 | Process viewer and                        |
| ii | gnome-terminal<br>emulator application                                             | 3.18.3-1ubuntu1               | amd64 | GNOME terminal                            |
| ii | gnome-terminal-data<br>GNOME terminal emulator                                     | 3.18.3-1ubuntu1               | all   | Data files for the                        |
| ii | gnome-user-guide                                                                   | 3.18.1-1                      | all   | GNOME user's guide                        |
| ii | gnome-user-share<br>sharing via WebDAV or ObexFTP                                  | 3.14.2-2ubuntu4               | amd64 | User level public file                    |
| ii | gnome-video-effects<br>GStreamer effects                                           | 0.4.1-3ubuntu1                | all   | Collection of                             |
| ii | gnupg<br>replacement                                                               | 1.4.20-1ubuntu3.1             | amd64 | GNU privacy guard - a free PGP            |
| ii | gnupg-agent<br>cryptographic agent                                                 | 2.1.11-6ubuntu2               | amd64 | GNU privacy guard -                       |
| ii | gnupg2<br>free PGP replacement (new v2.x)                                          | 2.1.11-6ubuntu2               | amd64 | GNU privacy guard - a                     |
| ii | google-chrome-stable<br>from Google                                                | 56.0.2924.76-1                | amd64 | The web browser                           |
| ii | google-talkplugin                                                                  | 5.41.3.0-1                    | amd64 | Google Talk Plugin                        |
| ii | gpgv<br>signature verification tool                                                | 1.4.20-1ubuntu3.1             | amd64 | GNU privacy guard -                       |
| ii | graphviz<br>2.38.0-12ubuntu2.1                                                     | amd64                         |       | rich set of graph drawing tools           |
| ii | grep                                                                               | 2.25-1~16.04.1                | amd64 | GNU grep, egrep and fgrep                 |
| ii | grilo-plugins-0.2-base:amd64<br>discovering and browsing media - Base Plugins      | 0.2.17-0ubuntu2               | amd64 | Framework for                             |
| ii | groff-base<br>system (base system components)                                      | 1.22.3-7                      | amd64 | GNU troff text-formatting                 |
| ii | grub-common<br>Bootloader (common files)                                           | 2.02~beta2-36ubuntu3.7        | amd64 | GRand Unified                             |
| ii | grub-efi-amd64<br>Bootloader, version 2 (EFI-AMD64 version)                        | 2.02~beta2-36ubuntu3.7        | amd64 | GRand Unified                             |
| ii | grub-efi-amd64-bin<br>AMD64 binaries)                                              | 2.02~beta2-36ubuntu3.7        | amd64 | GRand Unified Bootloader, version 2 (EFI- |
| ii | grub-efi-amd64-signed<br>Unified Bootloader, version 2 (EFI-AMD64 version, signed) | 1.66.7+2.02~beta2-36ubuntu3.7 | amd64 | GRand                                     |
| ii | grub2-common<br>Bootloader (common files for version 2)                            | 2.02~beta2-36ubuntu3.7        | amd64 | GRand Unified                             |
| ii | gsettings-desktop-schemas<br>wide schemas                                          | 3.18.1-1ubuntu1               | all   | GSettings desktop-                        |
| ii | gsettings-ubuntu-schemas<br>desktop-wide schemas for Ubuntu                        | 0.0.5+16.04.20160307-0ubuntu1 | all   | GSettings                                 |

|    |                                               |                                     |       |                                                  |
|----|-----------------------------------------------|-------------------------------------|-------|--------------------------------------------------|
| ii | gsfonts                                       | 1:8.11+urwcyr1.0.7~pre44-4.2ubuntu1 | all   | Fonts for the Ghostscript interpreter(s)         |
| ii | gsfonts-x11                                   | 0.24                                | all   | Make Ghostscript fonts available to X11          |
| ii | gststreamer1.0-alsa:amd64                     | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer plugin for ALSA                        |
| ii | gststreamer1.0-clutter-3.0                    | 3.0.18-1                            | amd64 | Clutter PPlugin for GStreamer 1.0                |
| ii | gststreamer1.0-fluendo-mp3:amd64              | 0.10.32.debian-1                    | amd64 | Fluendo mp3 decoder GStreamer 1.0 plugin         |
| ii | gststreamer1.0-libav:amd64                    | 1.8.2-1~ubuntu1                     | amd64 | libav plugin for GStreamer                       |
| ii | gststreamer1.0-plugins-bad:amd64              | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer plugins from the "bad" set             |
| ii | gststreamer1.0-plugins-bad-faad:amd64         | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer faad plugin from the "bad" set         |
| ii | gststreamer1.0-plugins-bad-videoparsers:amd64 | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer videoparsers plugin from the "bad" set |
| ii | gststreamer1.0-plugins-base:amd64             | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer plugins from the "base" set            |
| ii | gststreamer1.0-plugins-base:i386              | 1.8.2-1ubuntu0.2                    | i386  | GStreamer plugins from the "base" set            |
| ii | gststreamer1.0-plugins-base-apps              | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer helper programs from the "base" set    |
| ii | gststreamer1.0-plugins-good:amd64             | 1.8.2-1ubuntu0.3                    | amd64 | GStreamer plugins from the "good" set            |
| ii | gststreamer1.0-plugins-good:i386              | 1.8.2-1ubuntu0.3                    | i386  | GStreamer plugins from the "good" set            |
| ii | gststreamer1.0-plugins-ugly:amd64             | 1.8.2-1ubuntu0.1                    | amd64 | GStreamer plugins from the "ugly" set            |
| ii | gststreamer1.0-plugins-ugly-amr:amd64         | 1.8.2-1ubuntu0.1                    | amd64 | GStreamer plugins from the "ugly" set            |
| ii | gststreamer1.0-pulseaudio:amd64               | 1.8.2-1ubuntu0.3                    | amd64 | GStreamer plugin for PulseAudio                  |
| ii | gststreamer1.0-tools                          | 1.8.2-1~ubuntu1                     | amd64 | Tools for use with GStreamer                     |
| ii | gststreamer1.0-x:amd64                        | 1.8.2-1ubuntu0.2                    | amd64 | GStreamer plugins for X11 and Pango              |
| ii | gststreamer1.0-x:i386                         | 1.8.2-1ubuntu0.2                    | i386  | GStreamer plugins for X11 and Pango              |
| ii | gtk2-engines-murrine:amd64                    | 0.98.2-0ubuntu2.2                   | amd64 | cairo-based gtk+-2.0 theme engine                |
| ii | gucharmap                                     | 1:3.18.2-1ubuntu1                   | amd64 | Unicode character picker and font browser        |
| ii | guile-2.0-libs:amd64                          | 2.0.11+1-10                         | amd64 | Core Guile libraries                             |
| ii | gvfs:amd64                                    | 1.28.2-1ubuntu1~16.04.1             | amd64 | userspace virtual filesystem - GIO module        |
| ii | gvfs-backends                                 | 1.28.2-1ubuntu1~16.04.1             | amd64 | userspace virtual                                |

|                                 |                                  |     |       |                                                   |
|---------------------------------|----------------------------------|-----|-------|---------------------------------------------------|
| filesystem - backends           |                                  |     |       |                                                   |
| ii gvfs-bin                     | 1.28.2-1ubuntu1~16.04.1          |     | amd64 | userspace virtual                                 |
| filesystem - binaries           |                                  |     |       |                                                   |
| ii gvfs-common                  | 1.28.2-1ubuntu1~16.04.1          | all |       | userspace virtual filesystem - common             |
| data files                      |                                  |     |       |                                                   |
| ii gvfs-daemons                 | 1.28.2-1ubuntu1~16.04.1          |     | amd64 | userspace virtual                                 |
| filesystem - servers            |                                  |     |       |                                                   |
| ii gvfs-fuse                    | 1.28.2-1ubuntu1~16.04.1          |     | amd64 | userspace virtual                                 |
| filesystem - fuse server        |                                  |     |       |                                                   |
| ii gvfs-libs:amd64              | 1.28.2-1ubuntu1~16.04.1          |     | amd64 | userspace virtual                                 |
| filesystem - private libraries  |                                  |     |       |                                                   |
| ii gyp                          | 0.1+20150913git1f374df9-1ubuntu1 |     | all   | Cross-platform                                    |
| build script generator          |                                  |     |       |                                                   |
| ii gzip                         | 1.6-4ubuntu1                     |     | amd64 | GNU compression utilities                         |
| ii hardening-includes           | 2.7ubuntu2                       | all |       | Makefile for enabling compiler flags for security |
| hardening                       |                                  |     |       |                                                   |
| ii hdparm                       | 9.48+ds-1                        |     | amd64 | tune hard disk parameters                         |
| for high performance            |                                  |     |       |                                                   |
| ii heroku                       | 3.43.16                          |     | all   | Client library and CLI to deploy                  |
| apps on Heroku.                 |                                  |     |       |                                                   |
| ii heroku-toolbelt              | 3.43.16                          |     | all   | A metapackage for working                         |
| with the Heroku platform.       |                                  |     |       |                                                   |
| ii hicolor-icon-theme           | 0.15-0ubuntu1                    |     | all   | default fallback theme                            |
| for FreeDesktop.org icon themes |                                  |     |       |                                                   |
| ii hostname                     | 3.16ubuntu2                      |     | amd64 | utility to set/show the                           |
| host name or domain             |                                  |     |       |                                                   |
| name                            |                                  |     |       |                                                   |
| ii hplip                        | 3.16.3+repack0-1                 |     | amd64 | HP Linux Printing and                             |
| Imaging System (HPLIP)          |                                  |     |       |                                                   |
| ii hplip-data                   | 3.16.3+repack0-1                 |     | all   | HP Linux Printing and                             |
| Imaging - data files            |                                  |     |       |                                                   |
| ii hud                          | 14.10+16.04.20160415-0ubuntu1    |     | amd64 | Backend for the                                   |
| Unity HUD                       |                                  |     |       |                                                   |
| ii humanity-icon-theme          | 0.6.10                           |     | all   | Humanity Icon theme                               |
| ii hunspell-en-au               | 1:5.1.0-1ubuntu2.2               |     | all   | English (Australia)                               |
| dictionary for hunspell         |                                  |     |       |                                                   |
| ii hunspell-en-ca               | 1:5.1.0-1ubuntu2.2               |     | all   | English (Canada)                                  |
| dictionary for hunspell         |                                  |     |       |                                                   |
| ii hunspell-en-gb               | 1:5.1.0-1ubuntu2.2               | all |       | English (GB) dictionary for hunspell              |
| ii hunspell-en-us               | 20070829-6ubuntu3                |     | all   | English_american                                  |
| dictionary for hunspell         |                                  |     |       |                                                   |
| ii hunspell-en-za               | 1:5.1.0-1ubuntu2.2               |     | all   | English (South Africa)                            |
| dictionary for hunspell         |                                  |     |       |                                                   |
| ii hunspell-it                  | 1:5.1.0-1ubuntu2.2               |     | all   | Italian dictionary for                            |
| hunspell                        |                                  |     |       |                                                   |

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|----------------------------------------------------------------------------------------|---------------------------------|-------|----------------------------------------------------------------|
| ii hwdata<br>configuration data                                                        | 0.267-1                         | all   | hardware identification /                                      |
| ii hyphen-en-gb<br>hyphenation patterns                                                | 1:5.1.0-1ubuntu2.2              | all   | English (GB)                                                   |
| ii hyphen-en-us<br>2.8.8-2ubuntu1                                                      | all                             |       | US English hyphenation patterns for LibreOffice/OpenOffice.org |
| ii hyphen-it<br>patterns                                                               | 1:5.1.0-1ubuntu2.2              | all   | Italian hyphenation                                            |
| ii i965-va-driver:amd64<br>G45 & HD Graphics family                                    | 1.7.0-1                         | amd64 | VAAPI driver for Intel                                         |
| ii ibus                                                                                | 1.5.11-1ubuntu2                 | amd64 | Intelligent Input Bus - core                                   |
| ii ibus-gtk:amd64<br>GTK+2 support                                                     | 1.5.11-1ubuntu2                 | amd64 | Intelligent Input Bus -                                        |
| ii ibus-gtk3:amd64<br>- GTK+3 support                                                  | 1.5.11-1ubuntu2                 | amd64 | Intelligent Input Bus                                          |
| ii ibus-table<br>all table engine for IBus                                             | 1.9.1-3ubuntu2                  |       |                                                                |
| ii icedtea-netx-common<br>implementation of the Java Network Launching Protocol (JNLP) | 1.6.2-3ubuntu1                  | all   | NetX -                                                         |
| ii icu-devtools<br>International Components for Unicode                                | 55.1-7                          | amd64 | Development utilities for                                      |
| ii ifupdown<br>configure network interfaces                                            | 0.8.10ubuntu1.2                 | amd64 | high level tools to                                            |
| ii im-config<br>configuration framework                                                | 0.29-1ubuntu12.3                | all   | Input method                                                   |
| ii imagemagick<br>programs -- binaries                                                 | 8:6.8.9.9-7ubuntu5.3            | amd64 | image manipulation                                             |
| ii imagemagick-6.q16<br>8:6.8.9.9-7ubuntu5.3                                           | amd64                           |       | image manipulation programs -- quantum depth Q16               |
| ii imagemagick-common<br>manipulation programs -- infrastructure                       | 8:6.8.9.9-7ubuntu5.3            | all   | image                                                          |
| ii indicator-application<br>Indicators                                                 | 12.10.1+15.04.20150128-0ubuntu1 | amd64 | Application                                                    |
| ii indicator-appmenu<br>for application menus.                                         | 15.02.0+16.04.20151104-0ubuntu1 | amd64 | Indicator                                                      |
| ii indicator-bluetooth<br>bluetooth indicator.                                         | 0.0.6+16.04.20160526-0ubuntu1   | amd64 | System                                                         |
| ii indicator-datetime                                                                  | 15.10+16.04.20160406-0ubuntu1   | amd64 | Simple clock                                                   |
| ii indicator-keyboard<br>indicator                                                     | 0.0.0+16.04.20151125-0ubuntu1   | amd64 | Keyboard                                                       |
| ii indicator-messages<br>that collects messages that need a response                   | 13.10.1+15.10.20150505-0ubuntu1 | amd64 | indicator                                                      |
| ii indicator-power<br>showing power state.                                             | 12.10.6+16.04.20160105-0ubuntu1 | amd64 | Indicator                                                      |
| ii indicator-printers<br>showing active print jobs                                     | 0.1.7+15.04.20150220-0ubuntu2   | amd64 | indicator                                                      |
| ii indicator-session<br>showing session management, status and user switching          | 12.10.5+16.04.20160412-0ubuntu1 | amd64 | indicator                                                      |

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|-------------------------------------------------------------------------------|---------------------------------|-------|--------------------------------|
| ii indicator-sound<br>sound indicator.                                        | 12.10.2+16.04.20160406-0ubuntu1 | amd64 | System                         |
| ii info<br>documentation browser                                              | 6.1.0.dfsg.1-5                  | amd64 | Standalone GNU Info            |
| ii<br>init<br>metapackage                                                     | 1.29ubuntu3                     | amd64 | System-V-like init utilities - |
| ii init-system-helpers<br>systems                                             | 1.29ubuntu3                     | all   | helper tools for all init      |
| ii initramfs-tools<br>generator (automation)                                  | 0.122ubuntu8.8                  | all   | generic modular initramfs      |
| ii initramfs-tools-bin<br>initramfs-tools                                     | 0.122ubuntu8.8                  | amd64 | binaries used by               |
| ii initramfs-tools-core<br>initramfs generator (core tools)                   | 0.122ubuntu8.8                  | all   | generic modular                |
| ii initscripts<br>and shutting down the system                                | 2.88dsf-59.3ubuntu2             | amd64 | scripts for initializing       |
| ii<br>inputattach<br>attached peripherals to the input subsystem              | 1:1.4.9-1                       | amd64 | utility to connect serial-     |
| ii insserv<br>using LSB init.d script dependency information                  | 1.14.0-5ubuntu3                 | amd64 | boot sequence organizer        |
| ii install-info<br>documentation in info format                               | 6.1.0.dfsg.1-5                  | amd64 | Manage installed               |
| ii intel-gpu-tools<br>Intel graphics driver                                   | 1.14-1                          | amd64 | tools for debugging the        |
| ii intel-microcode<br>firmware for Intel CPUs                                 | 3.20151106.1                    | amd64 | Processor microcode            |
| ii intltool-debian<br>all Help i18n of RFC822 compliant config files          | 0.35.0+20060710.4               |       |                                |
| ii ippusbxd<br>support                                                        | 1.23-1                          | amd64 | Daemon for IPP USB printer     |
| ii iproute2<br>control tools                                                  | 4.3.0-1ubuntu3                  | amd64 | networking and traffic         |
| ii iptables<br>packet filtering and NAT                                       | 1.6.0-2ubuntu3                  | amd64 | administration tools for       |
| ii iputils-arping<br>echo requests to an ARP address                          | 3:20121221-5ubuntu2             | amd64 | Tool to send ICMP              |
| ii iputils-ping<br>reachability of network hosts                              | 3:20121221-5ubuntu2             | amd64 | Tools to test the              |
| ii iputils-tracpath<br>amd64 Tools to trace the network path to a remote host | 3:20121221-5ubuntu2             |       |                                |
| ii irqbalance<br>interrupts for SMP systems                                   | 1.1.0-2ubuntu1                  | amd64 | Daemon to balance              |
| ii isc-dhcp-client<br>automatically obtaining an IP address                   | 4.3.3-5ubuntu12.6               | amd64 | DHCP client for                |
| ii isc-dhcp-common<br>by all of the isc-dhcp packages                         | 4.3.3-5ubuntu12.6               | amd64 | common files used              |

|                                                                       |                           |       |                                                                        |
|-----------------------------------------------------------------------|---------------------------|-------|------------------------------------------------------------------------|
| ii iso-codes                                                          | 3.65-1                    | all   | ISO language, territory, currency, script codes and their translations |
| ii iucode-tool<br>microcode tool                                      | 1.5.1-1ubuntu0.1          | amd64 | Intel processor                                                        |
| ii iw                                                                 | 3.17-1                    |       |                                                                        |
|                                                                       | amd64                     |       | tool for configuring Linux wireless devices                            |
| ii java-common<br>runtimes                                            | 0.56ubuntu2               | all   | Base package for Java                                                  |
| ii javahelp2                                                          | 2.0.05.ds1-8              | all   | Java based help system                                                 |
| ii javascript-common<br>library packages                              | 11                        | all   | Base support for JavaScript                                            |
| ii jayatana<br>ayatana project                                        | 2.7-0ubuntu5              | amd64 | Java Native Library for                                                |
| ii jblas                                                              | 1.2.3-6                   | amd64 | fast linear algebra library for Java                                   |
| ii junit                                                              | 3.8.2-8build1             |       |                                                                        |
| all                                                                   |                           |       | Automated testing framework for Java                                   |
| ii junit4<br>framework for Java                                       | 4.12-4ubuntu1             | all   | JUnit regression test                                                  |
| ii kbd<br>keytable utilities                                          | 1.15.5-1ubuntu5           | amd64 | Linux console font and                                                 |
| ii kerneloops-daemon<br>tracker                                       | 0.12+git20140509-2ubuntu1 | amd64 | kernel oops                                                            |
| ii keyboard-configuration<br>keyboard preferences                     | 1.108ubuntu15.2           | all   | system-wide                                                            |
| ii keyutils<br>Utilities                                              | 1.5.9-8ubuntu1            | amd64 | Linux Key Management                                                   |
| ii klibc-utils<br>with klibc for early<br>boot                        | 2.0.4-8ubuntu1.16.04.2    | amd64 | small utilities built                                                  |
| ii kmod<br>kernel modules                                             | 22-1ubuntu4               | amd64 | tools for managing Linux                                               |
| ii krb5-locales<br>support for MIT Kerberos                           | 1.13.2+dfsg-5ubuntu1      | all   | Internationalization                                                   |
| ii language-pack-en<br>language English                               | 1:16.04+20161009          | all   | translation updates for                                                |
| ii language-pack-en-base<br>language English                          | 1:16.04+20160627          | all   | translations for                                                       |
| ii language-pack-gnome-en<br>translation updates for language English | 1:16.04+20161009          | all   | GNOME                                                                  |
| ii language-pack-gnome-en-base<br>translations for language English   | 1:16.04+20160627          | all   | GNOME                                                                  |
| ii language-pack-gnome-it<br>Italian                                  | 1:16.04+20161009          | all   | GNOME translation updates for language                                 |
| ii language-pack-gnome-it-base<br>translations for language Italian   | 1:16.04+20160627          | all   | GNOME                                                                  |
| ii language-pack-it                                                   | 1:16.04+20161009          | all   | translation updates for                                                |

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|-----------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|-------|----------------------------|
| language Italian                                                      |                                    |                                                                     |       |                            |
| ii language-pack-it-base                                              | 1:16.04+20160627                   |                                                                     | all   | translations for           |
| language Italian                                                      |                                    |                                                                     |       |                            |
| ii language-selector-common                                           | 0.165.4                            |                                                                     | all   | Language selector for      |
| Ubuntu                                                                |                                    |                                                                     |       |                            |
| ii language-selector-gnome                                            | 0.165.4                            |                                                                     | all   | Language selector for      |
| Ubuntu                                                                |                                    |                                                                     |       |                            |
| ii laptop-detect                                                      |                                    |                                                                     |       |                            |
| 0.13.7ubuntu2                                                         | amd64                              | attempt to detect a laptop                                          |       |                            |
| ii less                                                               | 481-2.1ubuntu0.1                   |                                                                     | amd64 | pager program similar to   |
| more                                                                  |                                    |                                                                     |       |                            |
| ii lib32z1                                                            | 1:1.2.8.dfsg-2ubuntu4              |                                                                     | amd64 | compression library -      |
| 32 bit runtime                                                        |                                    |                                                                     |       |                            |
| ii libal1y-profile-manager-0.1-0:amd64                                | 0.1.10-0ubuntu3                    |                                                                     | amd64 |                            |
| Accessibility profile manager - Shared library                        |                                    |                                                                     |       |                            |
| ii libal1y-profile-manager-data                                       | 0.1.10-0ubuntu3                    |                                                                     | all   | Accessibility              |
| Profile Manager - GSettings data                                      |                                    |                                                                     |       |                            |
| ii liba52-0.7.4:amd64                                                 | 0.7.4-18                           |                                                                     | amd64 | library for decoding       |
| ATSC A/52 streams                                                     |                                    |                                                                     |       |                            |
| ii libaa1:amd64                                                       | 1.4p5-44build1                     |                                                                     |       |                            |
| amd64                                                                 |                                    | ASCII art library                                                   |       |                            |
| ii libaa1:i386                                                        | 1.4p5-44build1                     |                                                                     | i386  | ASCII art library          |
| ii libaacs0:amd64                                                     | 0.8.1-1                            |                                                                     | amd64 | free-and-libre             |
| implementation of AACs                                                |                                    |                                                                     |       |                            |
| ii libabw-0.1-1v5:amd64                                               | 0.1.1-2ubuntu2                     |                                                                     | amd64 | library for reading        |
| and writing AbiWord(tm) documents                                     |                                    |                                                                     |       |                            |
| ii libaccount-plugin-1.0-0:amd64                                      | 0.1.8+16.04.20160201-0ubuntu1      |                                                                     | amd64 |                            |
| libaccount-plugin for Unity Control Center                            |                                    |                                                                     |       |                            |
| ii libaccount-plugin-generic-oauth                                    | 0.12+16.04.20160126-0ubuntu1       |                                                                     | amd64 |                            |
| GNOME Control Center account plugin for single signon - generic OAuth |                                    |                                                                     |       |                            |
| ii libaccount-plugin-google                                           | 0.12+16.04.20160126-0ubuntu1       |                                                                     |       |                            |
| amd64                                                                 |                                    | GNOME Control Center account plugin for single signon - Google Auth |       |                            |
| ii libaccounts-glib0:amd64                                            | 1.21+16.04.20160222-0ubuntu1       |                                                                     | amd64 | library for                |
| single signon                                                         |                                    |                                                                     |       |                            |
| ii libaccounts-qt5-1:amd64                                            | 1.14+16.04.20151106.1-0ubuntu1     |                                                                     | amd64 | QT                         |
| library for single sign on                                            |                                    |                                                                     |       |                            |
| ii libaccountsservice0:amd64                                          | 0.6.40-2ubuntu11.3                 |                                                                     | amd64 | query and                  |
| manipulate user account information - shared libraries                |                                    |                                                                     |       |                            |
| ii libacl1:amd64                                                      | 2.2.52-3                           |                                                                     | amd64 | Access control list shared |
| library                                                               |                                    |                                                                     |       |                            |
| ii libalgorithm-diff-perl                                             | 1.19.03-1                          |                                                                     | all   | module to find differences |
| between files                                                         |                                    |                                                                     |       |                            |
| ii libalgorithm-diff-xs-perl                                          | 0.04-4build1                       |                                                                     |       |                            |
| amd64                                                                 |                                    | module to find differences between files (XS accelerated)           |       |                            |
| ii libalgorithm-merge-perl                                            | 0.08-3                             |                                                                     | all   | Perl module for three-way  |
| merge of textual data                                                 |                                    |                                                                     |       |                            |
| ii libandroid-properties1                                             | 0.1.0+git20151016+6d424c9-0ubuntu7 |                                                                     | amd64 | Library                    |
| to provide access to get, set and list Android properties             |                                    |                                                                     |       |                            |

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|---------------------------------------------------------------------------|---------------------------------|-------|-------------------------------------------------|
| ii libao-common<br>Output Library (Common files)                          | 1.1.0-3ubuntu1                  | all   | Cross Platform Audio                            |
| ii libao4:amd64<br>Output Library                                         | 1.1.0-3ubuntu1                  | amd64 | Cross Platform Audio                            |
| ii libaopalliance-java<br>for Java AOP implementations                    | 20070526-5                      | all   | library for interoperability                    |
| ii libapache-pom-java<br>10-2build1                                       | all                             |       | Maven metadata for all Apache Software projects |
| ii libapparmor-perl<br>Perl bindings                                      | 2.10.95-0ubuntu2.5              | amd64 | AppArmor library                                |
| ii libapparmor1:amd64<br>AppArmor library                                 | 2.10.95-0ubuntu2.5              | amd64 | changehat                                       |
| ii libappindicator1<br>Indicators                                         | 12.10.1+15.04.20141110-0ubuntu1 | amd64 | Application                                     |
| ii libappindicator3-1<br>Indicators                                       | 12.10.1+15.04.20141110-0ubuntu1 | amd64 | Application                                     |
| ii libappstream-glib8:amd64<br>to access AppStream services               | 0.5.13-1ubuntu4                 | amd64 | GNOME library                                   |
| ii libappstream3:amd64<br>Library to access AppStream services            | 0.9.4-1ubuntu2                  | amd64 |                                                 |
| ii libapt-inst2.0:amd64<br>runtime library                                | 1.2.18                          | amd64 | deb package format                              |
| ii libapt-pkg-perl<br>pkg                                                 | 0.1.29build7                    | amd64 | Perl interface to libapt-                       |
| ii libapt-pkg5.0:amd64<br>runtime library                                 | 1.2.18                          | amd64 | package management                              |
| ii libarchive-zip-perl<br>of ZIP archives                                 | 1.56-2                          | all   | Perl module for manipulation                    |
| ii libarchive13:amd64<br>archive and compression library (shared library) | 3.1.2-11ubuntu0.16.04.2         | amd64 | Multi-format                                    |
| ii libart-2.0-2:amd64<br>for 2D graphics - runtime files                  | 2.3.21-2                        | amd64 | Library of functions                            |
| ii libasan1:amd64<br>fast memory error detector                           | 4.9.3-13ubuntu2                 | amd64 | AddressSanitizer -- a                           |
| ii libasan2:amd64<br>- a fast memory error detector                       | 5.4.0-6ubuntu1~16.04.4          | amd64 | AddressSanitizer -                              |
| ii libasm4-java<br>framework                                              | 5.0.4-1                         | all   | Java bytecode manipulation                      |
| ii libasn1-8-heimdal:amd64<br>Kerberos - ASN.1 library                    | 1.7~git20150920+dfsg-4ubuntu1   | amd64 | Heimdal                                         |
| ii libasound2:amd64<br>ALSA applications                                  | 1.1.0-0ubuntu1                  | amd64 | shared library for                              |
| ii libasound2:i386<br>ALSA applications                                   | 1.1.0-0ubuntu1                  | i386  | shared library for                              |
| ii libasound2-data<br>profiles for ALSA drivers                           | 1.1.0-0ubuntu1                  | all   | Configuration files and                         |
| ii libasound2-plugins:amd64<br>additional plugins                         | 1.1.0-0ubuntu1                  | amd64 | ALSA library                                    |

|                                                                               |                         |       |                                                     |
|-------------------------------------------------------------------------------|-------------------------|-------|-----------------------------------------------------|
| ii libasound2-plugins:i386<br>additional plugins                              | 1.1.0-0ubuntu1          | i386  | ALSA library                                        |
| ii libaspell15:amd64<br>spell-checker runtime library                         | 0.60.7~20110707-3build1 | amd64 | GNU Aspell                                          |
| ii libaspell15:i386<br>checker runtime library                                | 0.60.7~20110707-3build1 | i386  | GNU Aspell spell-                                   |
| ii libasprintf-dev:amd64<br>Internationalization library development<br>files | 0.19.7-2ubuntu3         | amd64 | GNU                                                 |
| ii libasprintf0v5:amd64<br>fprintf and friends in C++                         | 0.19.7-2ubuntu3         | amd64 | GNU library to use                                  |
| ii libass5:amd64<br>subtitles rendering                                       | 0.13.1-1                | amd64 | library for SSA/ASS                                 |
| ii libassuan0:amd64<br>GnuPG components                                       | 2.4.2-2                 | amd64 | IPC library for the                                 |
| ii libasyncns0:amd64<br>service query library                                 | 0.8-5build1             | amd64 | Asynchronous name                                   |
| ii libasyncns0:i386<br>service query library                                  | 0.8-5build1             | i386  | Asynchronous name                                   |
| ii libatasmart4:amd64<br>reading and parsing library                          | 0.19-3                  | amd64 | ATA S.M.A.R.T.                                      |
| ii libatinject-jsr330-api-java<br>1.0+ds1-2                                   | all                     |       | Java API for JSR-330 Dependency Injection           |
| ii libatk-adaptor:amd64<br>bridge                                             | 2.18.1-2ubuntu1         | amd64 | AT-SPI 2 toolkit                                    |
| ii libatk-bridge2.0-0:amd64<br>bridge - shared library                        | 2.18.1-2ubuntu1         | amd64 | AT-SPI 2 toolkit                                    |
| ii libatk1.0-0:amd64<br>toolkit                                               | 2.18.0-1                | amd64 | ATK accessibility                                   |
| ii libatk1.0-0:i386                                                           | 2.18.0-1                | i386  | ATK accessibility toolkit                           |
| ii libatk1.0-data<br>accessibility toolkit                                    | 2.18.0-1                | all   | Common files for the ATK                            |
| ii libatk1.0-dev<br>amd64                                                     | 2.18.0-1                |       | Development files for the ATK accessibility toolkit |
| ii libatkmm-1.6-1v5:amd64<br>ATK accessibility toolkit (shared libraries)     | 2.24.2-1                | amd64 | C++ wrappers for                                    |
| ii libatlas-base-dev<br>Linear Algebra Software, generic static               | 3.10.2-9                | amd64 | Automatically Tuned                                 |
| ii libatlas-dev<br>Algebra Software, C header files                           | 3.10.2-9                | amd64 | Automatically Tuned Linear                          |
| ii libatlas3-base<br>Linear Algebra Software, generic shared                  | 3.10.2-9                | amd64 | Automatically Tuned                                 |
| ii libatml:amd64<br>(Asynchronous<br>Transfer Mode)                           | 1:2.5.1-1.5             | amd64 | shared library for ATM                              |
| ii libatomic1:amd64<br>providing __atomic built-in functions                  | 5.4.0-6ubuntu1~16.04.4  | amd64 | support library                                     |
| ii libatspi2.0-0:amd64                                                        | 2.18.3-4ubuntu1         | amd64 | Assistive                                           |

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|--------------------------------------------------------|---------------------------|-------|------------------------------------------------------------------------------|--|
| Technology Service Provider Interface - shared library |                           |       |                                                                              |  |
| ii libattr1:amd64                                      | 1:2.4.47-2                | amd64 | Extended attribute shared library                                            |  |
| ii libaudio2:amd64                                     | 1.9.4-4                   | amd64 | Network Audio System - shared libraries                                      |  |
| ii libaudio2:i386                                      | 1.9.4-4                   | i386  | Network Audio System - shared libraries                                      |  |
| ii libaudit-common                                     | 1:2.4.5-1ubuntu2          | all   | Dynamic library for security auditing - common files                         |  |
| ii libaudit1:amd64                                     | 1:2.4.5-1ubuntu2          | amd64 | Dynamic library for security auditing                                        |  |
| ii libauthen-sasl-perl                                 | 2.1600-1                  | all   | Authen::SASL - SASL Authentication framework                                 |  |
| ii libavahi-client3:amd64                              | 0.6.32~rc+dfsg-1ubuntu2   | amd64 | Avahi client library                                                         |  |
| ii libavahi-client3:i386                               | 0.6.32~rc+dfsg-1ubuntu2   | i386  | Avahi client library                                                         |  |
| ii libavahi-common-data:amd64                          | 0.6.32~rc+dfsg-1ubuntu2   | amd64 | Avahi common data files                                                      |  |
| ii libavahi-common-data:i386                           | 0.6.32~rc+dfsg-1ubuntu2   | i386  | Avahi common data files                                                      |  |
| ii libavahi-common3:amd64                              | 0.6.32~rc+dfsg-1ubuntu2   | amd64 | Avahi common library                                                         |  |
| ii libavahi-common3:i386                               | 0.6.32~rc+dfsg-1ubuntu2   | i386  | Avahi common library                                                         |  |
| ii libavahi-core7:amd64                                | 0.6.32~rc+dfsg-1ubuntu2   | amd64 | Avahi's embeddable mDNS/DNS-SD library                                       |  |
| ii libavahi-glib1:amd64                                | 0.6.32~rc+dfsg-1ubuntu2   | amd64 | Avahi GLib integration library                                               |  |
| ii libavahi-ui-gtk3-0:amd64                            | 0.6.32~rc+dfsg-1ubuntu2   | amd64 | Avahi GTK+ User interface library for GTK3                                   |  |
| ii libavc1394-0:amd64                                  | 0.5.4-4                   | amd64 | control IEEE 1394 audio/video devices                                        |  |
| ii libavc1394-0:i386                                   | 0.5.4-4                   | i386  | control IEEE 1394 audio/video devices                                        |  |
| ii libavcodec-dev:amd64                                | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg library with de/encoders for audio/video codecs - development files   |  |
| ii libavcodec-ffmpeg56:amd64                           | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg library with de/encoders for audio/video codecs - runtime files       |  |
| ii libavfilter-ffmpeg5:amd64                           | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg library containing media filters - runtime files                      |  |
| ii libavformat-dev:amd64                               | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg library with (de)muxers for multimedia containers - development files |  |
| ii libavformat-ffmpeg56:amd64                          | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg library with (de)muxers for multimedia containers - runtime files     |  |
| ii libavresample-ffmpeg2:amd64                         | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg compatibility library for resampling - runtime files                  |  |

|                                    |                                    |       |                                                                                |
|------------------------------------|------------------------------------|-------|--------------------------------------------------------------------------------|
| ii libavutil-dev:amd64             | 7:2.8.10-0ubuntu0.16.04.1          | amd64 | FFmpeg library with functions for simplifying programming - development files  |
| ii libavutil-ffmpeg54:amd64        | 7:2.8.10-0ubuntu0.16.04.1          | amd64 | FFmpeg library with functions for simplifying programming - runtime files      |
| ii libbabeltrace-ctf1:amd64        | 1.3.2-1                            | amd64 | Common Trace Format (CTF) library                                              |
| ii libbabeltrace1:amd64            | 1.3.2-1                            | amd64 | Babeltrace conversion libraries                                                |
| ii libbamf3-2:amd64                | 0.5.3~bZR0+16.04.20160824-0ubuntu1 |       | Window matching library - shared library                                       |
| ii libbdplus0:amd64                | 0.1.2-1                            | amd64 | implementation of BD+ for reading Blu-ray Discs                                |
| ii libbind9-140:amd64              | 1:9.10.3.dfsg.P4-8ubuntu1.4        | amd64 | BIND9 Shared Library used by BIND                                              |
| ii libbison-dev:amd64              | 2:3.0.4.dfsg-1                     | amd64 | YACC-compatible parser generator - development library                         |
| ii libblas-common                  | 3.6.0-2ubuntu2                     | amd64 | Dependency package for all BLAS implementations                                |
| ii libblas-dev                     | 3.6.0-2ubuntu2                     | amd64 | Basic Linear Algebra Subroutines 3, static library                             |
| ii libblas3                        | 3.6.0-2ubuntu2                     |       |                                                                                |
|                                    | amd64                              |       | Basic Linear Algebra Reference implementations, shared library                 |
| ii libblkid1:amd64                 | 2.27.1-6ubuntu3.2                  | amd64 | block device ID library                                                        |
| ii libbluetooth3:amd64             | 5.37-0ubuntu5                      | amd64 | Library to use the BlueZ Linux Bluetooth stack                                 |
| ii libbluray1:amd64                | 1:0.9.2-2                          | amd64 | Blu-ray disc playback support library (shared library)                         |
| ii libboost-date-time1.58.0:amd64  | 1.58.0+dfsg-5ubuntu3.1             | amd64 | set of date-time libraries based on generic programming concepts               |
| ii libboost-filesystem1.58.0:amd64 | 1.58.0+dfsg-5ubuntu3.1             | amd64 | filesystem operations (portable paths, iteration over directories, etc) in C++ |
| ii libboost-iostreams1.58.0:amd64  | 1.58.0+dfsg-5ubuntu3.1             | amd64 | Boost.Iostreams Library                                                        |
| ii libboost-system1.58.0:amd64     | 1.58.0+dfsg-5ubuntu3.1             | amd64 | Operating system (e.g. diagnostics support) library                            |
| ii libbrlapi0.6:amd64              | 5.3.1-2ubuntu2.1                   | amd64 | braille display access via BRLTTY - shared library                             |
| ii libbs2b0:amd64                  | 3.1.0+dfsg-2.2                     | amd64 | Bauer stereophonic-to-binaural DSP library                                     |
| ii libbsd0:amd64                   | 0.8.2-1                            | amd64 | utility functions from BSD systems - shared library                            |
| ii libbsd0:i386                    | 0.8.2-1                            | i386  | utility functions from BSD systems - shared library                            |
| ii libbsh-java                     | 2.0b4-17ubuntu1                    | all   | Java scripting environment (BeanShell) Version 2 (library)                     |
| ii libbz2-1.0:amd64                | 1.0.6-8                            | amd64 | high-quality block-                                                            |

|                                                  |                            |  |       |                                           |
|--------------------------------------------------|----------------------------|--|-------|-------------------------------------------|
| sorting file compressor library - runtime        |                            |  |       |                                           |
| ii libbz2-1.0:i386                               | 1.0.6-8                    |  | i386  | high-quality block-sorting                |
| file compressor library - runtime                |                            |  |       |                                           |
| ii libc-bin                                      | 2.23-0ubuntu5              |  | amd64 | GNU C Library: Binaries                   |
| ii libc-dev-bin                                  | 2.23-0ubuntu5              |  | amd64 | GNU C Library:                            |
| Development binaries                             |                            |  |       |                                           |
| ii libc6:amd64                                   | 2.23-0ubuntu5              |  | amd64 | GNU C Library: Shared                     |
| libraries                                        |                            |  |       |                                           |
| ii libc6:i386                                    | 2.23-0ubuntu5              |  | i386  | GNU C Library: Shared                     |
| libraries                                        |                            |  |       |                                           |
| ii libc6-dbg:amd64                               | 2.23-0ubuntu5              |  | amd64 | GNU C Library:                            |
| detached debugging symbols                       |                            |  |       |                                           |
| ii libc6-dev:amd64                               | 2.23-0ubuntu5              |  | amd64 | GNU C Library:                            |
| Development Libraries and Header Files           |                            |  |       |                                           |
| ii libc6-i386                                    | 2.23-0ubuntu5              |  | amd64 | GNU C Library: 32-bit                     |
| shared libraries for AMD64                       |                            |  |       |                                           |
| ii libcaca0:amd64                                | 0.99.beta19-2build2~gcc5.2 |  | amd64 | colour ASCII art                          |
| library                                          |                            |  |       |                                           |
| ii libcaca0:i386                                 | 0.99.beta19-2build2~gcc5.2 |  | i386  | colour ASCII art                          |
| library                                          |                            |  |       |                                           |
| ii libcairo-gobject2:amd64                       | 1.14.6-1                   |  | amd64 | Cairo 2D vector graphics library (GObject |
| library)                                         |                            |  |       |                                           |
| ii libcairo-gobject2:i386                        | 1.14.6-1                   |  | i386  | Cairo 2D vector graphics                  |
| library (GObject library)                        |                            |  |       |                                           |
| ii libcairo-script-interpreter2:amd64            | 1.14.6-1                   |  | amd64 | Cairo 2D vector                           |
| graphics library (script interpreter)            |                            |  |       |                                           |
| ii libcairo2:amd64                               | 1.14.6-1                   |  | amd64 | Cairo 2D vector graphics                  |
| library                                          |                            |  |       |                                           |
| ii libcairo2:i386                                | 1.14.6-1                   |  | i386  | Cairo 2D vector graphics                  |
| library                                          |                            |  |       |                                           |
| ii libcairo2-dev                                 | 1.14.6-1                   |  | amd64 | Development files for the                 |
| Cairo 2D graphics library                        |                            |  |       |                                           |
| ii libcaiomm-1.0-1v5:amd64                       | 1.12.0-1                   |  | amd64 | C++ wrappers for Cairo (shared libraries) |
|                                                  |                            |  |       |                                           |
| ii libcamel-1.2-54:amd64                         | 3.18.5-1ubuntu1            |  | amd64 | Evolution MIME                            |
| message handling library                         |                            |  |       |                                           |
| ii libcanberra-gtk-module:amd64                  | 0.30-2.1ubuntu1            |  | amd64 | translates                                |
| GTK+ widgets signals to event sounds             |                            |  |       |                                           |
| ii libcanberra-gtk0:amd64                        | 0.30-2.1ubuntu1            |  | amd64 | GTK+ helper for                           |
| playing widget event sounds with libcanberra     |                            |  |       |                                           |
| ii libcanberra-gtk3-0:amd64                      | 0.30-2.1ubuntu1            |  | amd64 | GTK+ 3.0 helper                           |
| for playing widget event sounds with libcanberra |                            |  |       |                                           |
| ii libcanberra-gtk3-module:amd64                 | 0.30-2.1ubuntu1            |  | amd64 | translates                                |
| GTK3                                             |                            |  |       |                                           |
| widgets signals to event sounds                  |                            |  |       |                                           |
| ii libcanberra-pulse:amd64                       | 0.30-2.1ubuntu1            |  | amd64 | PulseAudio                                |
| backend for libcanberra                          |                            |  |       |                                           |

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|----------------------------------------------------------------------------|------------------------|-------|-----------------------------|
| ii libcanberra0:amd64<br>interface for playing event sounds                | 0.30-2.1ubuntu1        | amd64 | simple abstract             |
| ii libcap-ng0:amd64<br>capabilities library                                | 0.7.7-1                | amd64 | An alternate POSIX          |
| ii libcap2:amd64<br>capabilities (library)                                 | 1:2.24-12              | amd64 | POSIX 1003.1e               |
| ii libcap2:i386<br>(library)                                               | 1:2.24-12              | i386  | POSIX 1003.1e capabilities  |
| ii libcap2-bin<br>capabilities (utilities)                                 | 1:2.24-12              | amd64 | POSIX 1003.1e               |
| ii<br>libcc1-0:amd64<br>GDB                                                | 5.4.0-6ubuntu1~16.04.4 | amd64 | GCC cc1 plugin for          |
| ii libcdi-api-java<br>Injection for Java EE                                | 1.0-2                  | all   | Contexts and Dependency     |
| ii libcdio-cdda1:amd64<br>control digital audio CDs                        | 0.83-4.2ubuntu1        | amd64 | library to read and         |
| ii libcdio-paranoia1:amd64<br>digital audio CDs with error correction      | 0.83-4.2ubuntu1        | amd64 | library to read             |
| ii libcdio13:amd64<br>control CD-ROM                                       | 0.83-4.2ubuntu1        | amd64 | library to read and         |
| ii libcdparanoia0:amd64<br>tool for sampling CDs (library)                 | 3.10.2+debian-11       | amd64 | audio extraction            |
| ii<br>libcdparanoia0:i386<br>for sampling CDs (library)                    | 3.10.2+debian-11       | i386  | audio extraction tool       |
| ii libcdr-0.1-1:amd64<br>and converting Corel DRAW files                   | 0.1.2-2ubuntu2         | amd64 | library for reading         |
| ii libcdt5<br>tools - cdt library                                          | 2.38.0-12ubuntu2.1     | amd64 | rich set of graph drawing   |
| ii libcgi-fast-perl<br>FCGI                                                | 1:2.10-1               | all   | CGI subclass for work with  |
| ii libcgi-pm-perl<br>Interface applications                                | 4.26-1                 | all   | module for Common Gateway   |
| ii libcglib3-java<br>Java                                                  | 3.1+dfsg-1             | all   | code generation library for |
| ii<br>libcgmanager0:amd64<br>manager daemon (client library)               | 0.39-2ubuntu5          | amd64 | Central cgroup              |
| ii libcgraph6<br>drawing tools - cgraph library                            | 2.38.0-12ubuntu2.1     | amd64 | rich set of graph           |
| ii libcheese-gtk25:amd64<br>pictures and videos from your webcam - widgets | 3.18.1-2ubuntu3        | amd64 | tool to take                |
| ii libcheese8:amd64<br>and videos from your webcam - base library          | 3.18.1-2ubuntu3        | amd64 | tool to take pictures       |
| ii libchromaprint0:amd64<br>library                                        | 1.3-1                  | amd64 | audio fingerprint           |
| ii libcilkrts5:amd64                                                       | 5.4.0-6ubuntu1~16.04.4 | amd64 | Intel Cilk Plus             |

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|------------------------------------------------------------------------------------|-------------------------------|-------|------------------------------|
| language extensions (runtime)                                                      |                               |       |                              |
| ii libclang-common-3.8-dev<br>Common development package                           | 1:3.8-2ubuntu4                | amd64 | clang library -              |
| ii libclang1-3.8:amd64<br>clang library                                            | 1:3.8-2ubuntu4                | amd64 | C interface to the           |
| ii libclass-accessor-perl<br>automatically generates accessors                     | 0.34-1                        | all   | Perl module that             |
| ii libclassworlds-java<br>developers requiring manipulation of ClassLoaders        | 1.1-final-5                   | all   | framework for container      |
| ii libclone-perl<br>copying Perl datatypes                                         | 0.38-1build1                  | amd64 | module for recursively       |
| ii liblucene-contribs1v5:amd64<br>amd64 language specific text analyzers (runtime) | 2.3.3.4-4.1                   |       |                              |
| ii liblucene-core1v5:amd64<br>featured text search engine (runtime)                | 2.3.3.4-4.1                   | amd64 | core library for full-       |
| ii libclutter-1.0-0:amd64<br>interactive canvas library                            | 1.24.2-1                      | amd64 | Open GL based                |
| ii libclutter-1.0-common<br>interactive canvas library (common files)              | 1.24.2-1                      | all   | Open GL based                |
| ii libclutter-gst-3.0-0:amd64<br>interactive canvas library GStreamer elements     | 3.0.18-1                      | amd64 | Open GL based                |
| ii libclutter-gtk-1.0-0:amd64<br>interactive canvas library GTK+ widget            | 1.6.6-1                       | amd64 | Open GL based                |
| ii libcmis-0.5-5v5:amd64<br>0.5.1-2ubuntu2                                         | amd64                         |       | CMIS protocol client library |
| ii libcogl-common<br>Abstraction/Utility Layer (common files)                      | 1.22.0-2                      | all   | Object oriented GL/GLES      |
| ii libcogl-pango20:amd64<br>GL/GLES Abstraction/Utility Layer                      | 1.22.0-2                      | amd64 | Object oriented              |
| ii libcogl-path20:amd64<br>GL/GLES Abstraction/Utility Layer                       | 1.22.0-2                      | amd64 | Object oriented              |
| ii libcogl20:amd64<br>GL/GLES Abstraction/Utility Layer                            | 1.22.0-2                      | amd64 | Object oriented              |
| ii libcolamd2.9.1:amd64<br>minimum degree ordering library for sparse matrices     | 1:4.4.6-1                     | amd64 | column approximate           |
| ii libcolord2:amd64<br>manage device colour profiles -- runtime                    | 1.2.12-1ubuntu1               | amd64 | system service to            |
| ii libcolorhug2:amd64<br>ColorHug colourimeter -- runtime                          | 1.2.12-1ubuntu1               | amd64 | library to access the        |
| ii libcolumbus1-common<br>matching engine - common files                           | 1.1.0+15.10.20150806-0ubuntu4 | all   | error tolerant               |
| ii libcolumbus1v5:amd64<br>tolerant matching engine - shared library               | 1.1.0+15.10.20150806-0ubuntu4 | amd64 | error                        |
| ii libcomerr2:amd64<br>description library                                         | 1.42.13-1ubuntu1              | amd64 | common error                 |
| ii libcomerr2:i386<br>description                                                  | 1.42.13-1ubuntu1              | i386  | common error                 |

|                                 |                                    |       |       |                                                                   |
|---------------------------------|------------------------------------|-------|-------|-------------------------------------------------------------------|
| library                         |                                    |       |       |                                                                   |
| ii libcommons-cli-java          | 1.3.1-3ubuntu1                     |       | all   | Command line arguments and options parsing library                |
| ii libcommons-codec-java        | 1.10-1                             |       | all   | encoder and decoders such as Base64 and hexadecimal codec         |
| ii libcommons-collections3-java | 3.2.2-1                            |       | all   | Apache Commons Collections - Extended Collections API for Java    |
| ii libcommons-httpclient-java   | 3.1-12                             |       | all   | Commons HTTPClient - Java library for creating HTTP clients       |
| ii libcommons-io-java           | 2.4-2                              |       | all   | Common useful IO related classes                                  |
| ii libcommons-lang-java         | 2.6-6ubuntu2                       |       | all   | Commons Lang - an extension of the java.lang package              |
| ii libcommons-lang3-java        | 3.4-1                              |       | all   | Extension of the java.lang package (for Java 5+)                  |
| ii libcommons-logging-java      | 1.2-1+build1                       |       | all   | common wrapper interface for several logging APIs                 |
| ii libcommons-math-java         | 2.2-5                              |       | all   | Java lightweight mathematics and statistics components            |
| ii libcommons-net-java          | 3.4-2ubuntu2                       |       | all   | Apache Commons Net - Java client API for basic Internet protocols |
| ii libcommons-net2-java         | 2.2-2                              |       | all   | internet protocol suite Java library                              |
| ii libcommons-parent-java       | 39-3                               | all   |       | Maven metadata for Apache Commons project                         |
| ii libcompizconfig0:amd64       | 1:0.9.12.2+16.04.20160823-0ubuntu1 |       | amd64 | Settings library for plugins - OpenCompositing Project            |
| ii libcrack2:amd64              | 2.9.2-1build2                      |       | amd64 | pro-active password checker library                               |
| ii libcroco3:amd64              | 0.6.11-1                           |       | amd64 | Cascading Style Sheet (CSS) parsing and manipulation toolkit      |
| ii libcryptsetup4:amd64         | 2:1.6.6-5ubuntu2                   |       | amd64 | disk encryption support - shared library                          |
| ii libcrystalhd3:amd64          | 1:0.0~git20110715.fdd2f19-11build1 |       | amd64 | Crystal HD Video Decoder (shared library)                         |
| ii libcups2:amd64               | 2.1.3-4                            | amd64 |       | Common UNIX Printing System(tm) - Core library                    |
| ii libcups2:i386                | 2.1.3-4                            |       | i386  | Common UNIX Printing System(tm) - Core library                    |
| ii libcups2-dev:amd64           | 2.1.3-4                            |       | amd64 | Common UNIX Printing System(tm) - Development files CUPS library  |
| ii libcupscgi1:amd64            | 2.1.3-4                            |       | amd64 | Common UNIX Printing System(tm) - CGI library                     |
| ii libcupsfilters1:amd64        | 1.8.3-2ubuntu3.1                   |       | amd64 | OpenPrinting CUPS Filters - Shared library                        |
| ii libcupsimage2:amd64          | 2.1.3-4                            |       | amd64 | Common UNIX Printing System(tm) - Raster image library            |
| ii libcupsmime1:amd64           |                                    |       |       |                                                                   |

|                             | 2.1.3-4                         | amd64 | Common UNIX Printing System(tm) - MIME |                                                                              |
|-----------------------------|---------------------------------|-------|----------------------------------------|------------------------------------------------------------------------------|
| library                     |                                 |       |                                        |                                                                              |
| ii libcupsppdc1:amd64       | 2.1.3-4                         |       | amd64                                  | Common UNIX Printing System(tm) - PPD manipulation library                   |
| ii libcurl3:amd64           | 7.47.0-1ubuntu2.2               |       | amd64                                  | easy-to-use client-side URL transfer library (OpenSSL flavour)               |
| ii libcurl3-gnutls:amd64    | 7.47.0-1ubuntu2.2               |       | amd64                                  | easy-to-use client-side URL transfer library (GnuTLS flavour)                |
| ii libcv-dev:amd64          | 2.4.9.1+dfsg-1.5ubuntu1         |       | amd64                                  | Translation package for libcv-dev                                            |
| ii libcvaux-dev:amd64       | 2.4.9.1+dfsg-1.5ubuntu1         |       | amd64                                  | Translation package for libcvaux-dev                                         |
| ii libdaemon0:amd64         | 0.14-6                          |       | amd64                                  | lightweight C library for daemons - runtime library                          |
| ii libdata-alias-perl       | 1.20-1build1                    |       | amd64                                  | module to create aliases instead of copies                                   |
| ii libdatrie1:amd64         | 0.2.10-2                        |       | amd64                                  | Double-array trie library                                                    |
| ii libdatrie1:i386          | 0.2.10-2                        |       | i386                                   | Double-array trie library                                                    |
| ii libdb5.3:amd64           | 5.3.28-11                       |       | amd64                                  | Berkeley v5.3 Database Libraries [runtime]                                   |
| ii libdbus-1-3:amd64        | 1.10.6-1ubuntu3.3               |       | amd64                                  | simple interprocess messaging system (library)                               |
| ii libdbus-1-3:i386         | 1.10.6-1ubuntu3.3               |       | i386                                   | simple interprocess messaging system (library)                               |
| ii libdbus-glib-1-2:amd64   | 0.106-1                         |       | amd64                                  | simple interprocess messaging system (GLib-based shared library)             |
| ii libdbus-glib-1-2:i386    | 0.106-1                         |       | i386                                   | simple interprocess messaging system (GLib-based shared library)             |
| ii libdbusmenu-glib4:amd64  | 16.04.1+16.04.20160927-0ubuntu1 |       | amd64                                  | library for passing menus over Dbus                                          |
| ii libdbusmenu-gtk3-4:amd64 | 16.04.1+16.04.20160927-0ubuntu1 |       | amd64                                  | library for passing menus over Dbus - GTK+ version                           |
| ii libdbusmenu-gtk4:amd64   | 16.04.1+16.04.20160927-0ubuntu1 |       | amd64                                  | library for passing menus over Dbus - GTK+ version                           |
| ii libdbusmenu-qt2:amd64    | 0.9.3+16.04.20160218-0ubuntu1   |       | amd64                                  | Qt implementation of the DbusMenu protocol                                   |
| ii libdbusmenu-qt2:i386     | 0.9.3+16.04.20160218-0ubuntu1   |       | i386                                   | Qt implementation of the DbusMenu protocol                                   |
| ii libdbusmenu-qt5:amd64    | 0.9.3+16.04.20160218-0ubuntu1   |       | amd64                                  | Qt5 implementation of the DbusMenu protocol                                  |
| ii libdc1394-22:amd64       | 2.2.4-1                         |       | amd64                                  | high level programming interface for IEEE 1394 digital cameras               |
| ii libdc1394-22-dev:amd64   | 2.2.4-1                         |       | amd64                                  | high level programming interface for IEEE 1394 digital cameras - development |
| ii libdca0:amd64            | 0.0.5-7build1                   |       | amd64                                  | decoding library for DTS Coherent Acoustics streams                          |
| ii libdconf1:amd64          | 0.24.0-2                        |       | amd64                                  | simple configuration                                                         |

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| storage system - runtime library |                                    |       |       |                                                                       |
| ii libdconf1:i386                | 0.24.0-2                           |       | i386  | simple configuration storage                                          |
| system - runtime library         |                                    |       |       |                                                                       |
| ii libde265-0:amd64              | 1.0.2-2                            |       | amd64 | Open H.265 video codec implementation                                 |
| ii libdebconfclient0:amd64       | 0.198ubuntu1                       |       | amd64 | Debian Configuration Management System (C-implementation library)     |
| ii libdecoration0:amd64          | 1:0.9.12.2+16.04.20160823-0ubuntu1 |       | amd64 | Compiz window decoration library                                      |
| ii libdee-1.0-4:amd64            | 1.2.7+15.04.20150304-0ubuntu2      | amd64 |       | model to synchronize multiple instances over DBus - shared lib        |
| ii libdevmapper1.02.1:amd64      | 2:1.02.110-1ubuntu10               |       | amd64 | Linux Kernel Device Mapper userspace library                          |
| ii libdfu1:amd64                 | 0.7.0-0ubuntu4.3                   |       | amd64 | Firmware update daemon library for DFU support                        |
| ii libdigest-hmac-perl           | 1.03+dfsg-1                        |       | all   | module for creating standard message integrity checks                 |
| ii libdjvulibre-text             | 3.5.27.1-5                         |       | all   | Linguistic support files for libdjvulibre                             |
| ii libdjvulibre21:amd64          | 3.5.27.1-5                         |       | amd64 | Runtime support for the DjVu image format                             |
| ii libdmapsharing-3.0-2:amd64    | 2.9.34-1                           |       | amd64 | DMAP client and server library - runtime                              |
| ii libdns-export162              | 1:9.10.3.dfsg.P4-8ubuntu1.4        |       | amd64 | Exported DNS Shared Library                                           |
| ii libdns162:amd64               | 1:9.10.3.dfsg.P4-8ubuntu1.4        |       | amd64 | DNS Shared Library used by BIND                                       |
| ii libdom4j-java                 | 1.6.1+dfsg.3-2ubuntu1              |       | all   | flexible XML framework for Java                                       |
| ii libdotconf0:amd64             | 1.3-0.2                            |       | amd64 | Configuration file parser library - runtime files                     |
| ii libdouble-conversion1v5:amd64 | 2.0.1-3ubuntu2                     |       | amd64 | routines to convert IEEE floats to and from strings                   |
| ii libdoxia-core-java            | 1.1.4-3ubuntu1                     | all   |       | Doxia content generation framework (core)                             |
| ii libdpkg-perl                  | 1.18.4ubuntu1.1                    |       | all   | Dpkg perl modules                                                     |
| ii libdrm-amdgpu1:amd64          | 2.4.67-1ubuntu0.16.04.2            |       | amd64 | Userspace interface to amdgpu-specific kernel DRM services -- runtime |
| ii libdrm-amdgpu1:i386           | 2.4.67-1ubuntu0.16.04.2            |       | i386  | Userspace interface to amdgpu-specific kernel DRM services -- runtime |
| ii libdrm-dev:amd64              | 2.4.67-1ubuntu0.16.04.2            |       | amd64 | Userspace interface to kernel DRM services -- development files       |
| ii libdrm-intel1:amd64           | 2.4.67-1ubuntu0.16.04.2            |       | amd64 | Userspace interface to intel-specific kernel DRM services -- runtime  |
| ii libdrm-intel1:i386            | 2.4.67-1ubuntu0.16.04.2            |       | i386  | Userspace interface                                                   |

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|----------------------------------------------------------------|-------------------------|-------|---------------------------------------------|--|
| to intel-specific kernel DRM services -- runtime               |                         |       |                                             |  |
| ii libdrm-nouveau2:amd64                                       | 2.4.67-1ubuntu0.16.04.2 | amd64 | Userspace                                   |  |
| interface to nouveau-specific kernel DRM services -- runtime   |                         |       |                                             |  |
| ii libdrm-nouveau2:i386                                        | 2.4.67-1ubuntu0.16.04.2 | i386  | Userspace                                   |  |
| interface to nouveau-specific kernel DRM services -- runtime   |                         |       |                                             |  |
| ii libdrm-radeon1:amd64                                        | 2.4.67-1ubuntu0.16.04.2 | amd64 | Userspace                                   |  |
| interface to radeon-specific kernel DRM services -- runtime    |                         |       |                                             |  |
| ii libdrm-radeon1:i386                                         | 2.4.67-1ubuntu0.16.04.2 | i386  | Userspace                                   |  |
| interface to radeon-specific kernel<br>DRM services -- runtime |                         |       |                                             |  |
| ii libdrm2:amd64                                               | 2.4.67-1ubuntu0.16.04.2 | amd64 | Userspace                                   |  |
| interface to kernel DRM services -- runtime                    |                         |       |                                             |  |
| ii libdrm2:i386                                                | 2.4.67-1ubuntu0.16.04.2 | i386  | Userspace interface                         |  |
| to kernel DRM services -- runtime                              |                         |       |                                             |  |
| ii libdv4:amd64                                                | 1.0.0-7                 | amd64 | software library for DV                     |  |
| format digital video (runtime lib)                             |                         |       |                                             |  |
| ii libdv4:i386                                                 | 1.0.0-7                 | i386  | software library for DV                     |  |
| format digital video (runtime lib)                             |                         |       |                                             |  |
| ii libdvnav4:amd64                                             | 5.0.3-1                 | amd64 | DVD navigation library                      |  |
| ii libdvread4:amd64                                            | 5.0.3-1                 | amd64 |                                             |  |
| library for reading DVDs                                       |                         |       |                                             |  |
| ii libdw1:amd64                                                | 0.165-3ubuntu1          | amd64 | library that provides                       |  |
| access to the DWARF debug information                          |                         |       |                                             |  |
| ii libe-book-0.1-1:amd64                                       | 0.1.2-2ubuntu1          | amd64 | library for reading                         |  |
| and converting various e-book formats                          |                         |       |                                             |  |
| ii libeasymock-java                                            | 3.3.1+ds-3              | all   | Java library to generate                    |  |
| Mock Objects for given interfaces                              |                         |       |                                             |  |
| ii libebook-1.2-10:amd64                                       | 3.18.5-1ubuntu1         | amd64 | Utility library                             |  |
| for evolution data servers                                     |                         |       |                                             |  |
| ii libebook-1.2-16:amd64                                       | 3.18.5-1ubuntu1         | amd64 | Client library for                          |  |
| evolution address books                                        |                         |       |                                             |  |
| ii libebook-contacts-1.2-2:amd64                               | 3.18.5-1ubuntu1         |       |                                             |  |
| amd64                                                          |                         |       | Client library for evolution contacts books |  |
| ii libecal-1.2-19:amd64                                        | 3.18.5-1ubuntu1         | amd64 | Client library for                          |  |
| evolution calendars                                            |                         |       |                                             |  |
| ii libeclipse-aether-java                                      | 1.0.2-1                 | all   | Library to handle Java                      |  |
| artifact repositories                                          |                         |       |                                             |  |
| ii libcryptfs1                                                 | 111-0ubuntu1.1          | amd64 | ecryptfs cryptographic                      |  |
| filesystem (library)                                           |                         |       |                                             |  |
| ii libedata-book-1.2-25:amd64                                  | 3.18.5-1ubuntu1         | amd64 | Backend library                             |  |
| for evolution address books                                    |                         |       |                                             |  |
| ii libedata-cal-1.2-28:amd64                                   | 3.18.5-1ubuntu1         | amd64 | Backend library                             |  |
| for evolution calendars                                        |                         |       |                                             |  |
| ii libedataserver-1.2-21:amd64                                 | 3.18.5-1ubuntu1         |       |                                             |  |
| amd64                                                          |                         |       | Utility library for evolution data servers  |  |
| ii libedataserverui-1.2-1:amd64                                | 3.18.5-1ubuntu1         | amd64 | Utility library                             |  |
| for evolution data servers                                     |                         |       |                                             |  |
| ii libedit2:amd64                                              | 3.1-20150325-1ubuntu2   | amd64 | BSD editline and                            |  |

|                                                    |                       |       |       |                                          |
|----------------------------------------------------|-----------------------|-------|-------|------------------------------------------|
| history libraries                                  |                       |       |       |                                          |
| ii libedit2:i386                                   | 3.1-20150325-1ubuntu2 |       | i386  | BSD editline and                         |
| history libraries                                  |                       |       |       |                                          |
| ii libefivar0:amd64                                | 0.23-2                |       | amd64 | Library to manage UEFI                   |
| variables                                          |                       |       |       |                                          |
| ii libegl1-mesa:amd64                              | 11.2.0-1ubuntu2.2     |       | amd64 | free                                     |
| implementation of the EGL API -- runtime           |                       |       |       |                                          |
| ii libegl1-mesa:i386                               | 11.2.0-1ubuntu2.2     |       | i386  |                                          |
| free implementation of the EGL API -- runtime      |                       |       |       |                                          |
| ii libelf1:amd64                                   | 0.165-3ubuntu1        |       | amd64 | library to read and                      |
| write ELF files                                    |                       |       |       |                                          |
| ii libelf1:i386                                    | 0.165-3ubuntu1        |       | i386  | library to read and write                |
| ELF files                                          |                       |       |       |                                          |
| ii libemail-valid-perl                             | 1.198-1               |       | all   | Perl module for checking the             |
| validity of Internet email addresses               |                       |       |       |                                          |
| ii libenchant1c2a:amd64                            | 1.6.0-10.1build2      |       | amd64 | Wrapper library                          |
| for various spell checker engines (runtime libs)   |                       |       |       |                                          |
| ii libenchant1c2a:i386                             | 1.6.0-10.1build2      |       | i386  | Wrapper library for                      |
| various spell checker engines (runtime libs)       |                       |       |       |                                          |
| ii libencode-locale-perl                           | 1.05-1                |       |       |                                          |
| all utility to determine the locale encoding       |                       |       |       |                                          |
| ii libeot0:amd64                                   | 0.01-3ubuntu1         |       | amd64 | Library for                              |
| parsing/convertng Embedded OpenType files          |                       |       |       |                                          |
| ii libepoxy0:amd64                                 | 1.3.1-1               |       | amd64 | OpenGL function pointer                  |
| management library                                 |                       |       |       |                                          |
| ii liberror-perl                                   | 0.17-1.2              |       | all   | Perl module for error/exception          |
| handling in an OO-ish way                          |                       |       |       |                                          |
| ii libespeak1:amd64                                | 1.48.04+dfsg-2        |       | amd64 | Multi-lingual                            |
| software speech synthesizer: shared library        |                       |       |       |                                          |
| ii libestr0                                        | 0.1.10-1              |       | amd64 | Helper functions for handling            |
| strings (lib)                                      |                       |       |       |                                          |
| ii libetonyek-0.1-1:amd64                          | 0.1.6-1ubuntu1        | amd64 |       | library for reading and converting Apple |
| Keynote presentations                              |                       |       |       |                                          |
| ii libevdev2:amd64                                 | 1.4.6+dfsg-1          |       | amd64 | wrapper library for                      |
| evdev devices                                      |                       |       |       |                                          |
| ii libevdocument3-4:amd64                          | 3.18.2-1ubuntu4       |       | amd64 | Document                                 |
| (PostScript, PDF) rendering library                |                       |       |       |                                          |
| ii libevent-2.0-5:amd64                            | 2.0.21-stable-2       |       | amd64 | Asynchronous event                       |
| notification library                               |                       |       |       |                                          |
| ii libevview3-3:amd64                              | 3.18.2-1ubuntu4       |       | amd64 | Document                                 |
| (PostScript, PDF) rendering library - Gtk+ widgets |                       |       |       |                                          |
| ii libexempi3:amd64                                | 2.2.2-2               |       | amd64 | library to parse XMP                     |
| metadata (Library)                                 |                       |       |       |                                          |
| ii libexif12:amd64                                 | 0.6.21-2              | amd64 |       | library to parse EXIF files              |
|                                                    |                       |       |       |                                          |
| ii libexiv2-14:amd64                               | 0.25-2.1              |       | amd64 | EXIF/IPTC metadata                       |
| manipulation library                               |                       |       |       |                                          |

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|-----------------------------------------------------------------------------------|----------------------------|--------------------------------------------|-----------------------------------------------------------------|
| ii libexpat1:amd64<br>library - runtime library                                   | 2.1.0-7ubuntu0.16.04.2     | amd64                                      | XML parsing C                                                   |
| ii libexpat1:i386<br>library - runtime library                                    | 2.1.0-7ubuntu0.16.04.2     | i386                                       | XML parsing C                                                   |
| ii libexpat1-dev:amd64<br>library - development kit                               | 2.1.0-7ubuntu0.16.04.2     | amd64                                      | XML parsing C                                                   |
| ii libexporter-lite-perl<br>Exporter                                              | 0.08-1                     | all                                        | lightweight subset of                                           |
| ii libexporter-tiny-perl<br>0.042-1                                               | all                        | tiny exporter similar to Sub::Exporter     |                                                                 |
| ii libexttextcat-2.0-0:amd64<br>detection library                                 | 3.4.4-1ubuntu3             | amd64                                      | Language                                                        |
| ii libexttextcat-data<br>library - data files                                     | 3.4.4-1ubuntu3             | all                                        | Language detection                                              |
| ii libfaad2:amd64<br>Advanced Audio Decoder - runtime files                       | 2.8.0~cvs20150510-1        | amd64                                      | freeware                                                        |
| ii libfakeroot:amd64<br>superuser privileges - shared libraries                   | 1.20.2-1ubuntu1            | amd64                                      | tool for simulating                                             |
| ii libfcgi-perl                                                                   | 0.77-1build1               | amd64                                      | helper module for FastCGI                                       |
| ii libfcitx-config4:amd64<br>amd64                                                | 1:4.2.9.1-1ubuntu1.16.04.2 |                                            | Flexible Input Method Framework - configuration support library |
| ii libfcitx-gclient0:amd64<br>Method Framework - D-Bus client library for Glib    | 1:4.2.9.1-1ubuntu1.16.04.2 | amd64                                      | Flexible Input                                                  |
| ii libfcitx-utils0:amd64<br>Method Framework - utility support library            | 1:4.2.9.1-1ubuntu1.16.04.2 | amd64                                      | Flexible Input                                                  |
| ii libfdisk1:amd64<br>library                                                     | 2.27.1-6ubuntu3.2          | amd64                                      | fdisk partitioning                                              |
| ii libffi-dev:amd64<br>Interface library (development files)                      | 3.2.1-4                    | amd64                                      | Foreign Function                                                |
| ii libffi6:amd64<br>library runtime                                               | 3.2.1-4                    | amd64                                      | Foreign Function Interface                                      |
| ii libffi6:i386<br>3.2.1-4                                                        | i386                       | Foreign Function Interface library runtime |                                                                 |
| ii libfftw3-double3:amd64<br>computing Fast Fourier Transforms - Double precision | 3.3.4-2ubuntu1             | amd64                                      | Library for                                                     |
| ii libfftw3-single3:amd64<br>computing Fast Fourier Transforms - Single precision | 3.3.4-2ubuntu1             | amd64                                      | Library for                                                     |
| ii libfile-basedir-perl<br>freedesktop basedir specification                      | 0.07-1                     | all                                        | Perl module to use the                                          |
| ii libfile-copy-recursive-perl<br>recursively copying files and directories       | 0.38-1                     | all                                        | Perl extension for                                              |
| ii libfile-desktopentry-perl<br>Perl module to handle freedesktop .desktop files  | 0.22-1                     | all                                        |                                                                 |
| ii libfile-fcntllock-perl<br>locking with fcntl(2)                                | 0.22-3                     | amd64                                      | Perl module for file                                            |
| ii libfile-homedir-perl<br>directories across platforms                           | 1.00-1                     | all                                        | Perl module for finding user                                    |
| ii libfile-listing-perl                                                           | 6.04-1                     | all                                        | module to parse directory                                       |

|                                     |                                            |       |       |                                                             |
|-------------------------------------|--------------------------------------------|-------|-------|-------------------------------------------------------------|
| listings                            |                                            |       |       |                                                             |
| ii libfile-mimeinfo-perl            | 0.27-1                                     |       | all   | Perl module to determine file types                         |
| ii libfile-stripnondeterminism-perl | 0.015-1                                    |       | all   | Perl module for stripping non-determinism from files        |
| ii libfile-which-perl               | 1.19-1                                     |       |       | all Perl module for searching paths for executable programs |
| ii libfl-dev:amd64                  | 2.6.0-11                                   |       | amd64 | static library for flex (a fast lexical analyzer generator) |
| ii libflac8:amd64                   | 1.3.1-4                                    |       | amd64 | Free Lossless Audio Codec - runtime C library               |
| ii libflac8:i386                    | 1.3.1-4                                    |       | i386  | Free Lossless Audio Codec - runtime C library               |
| ii libflite1:amd64                  | 2.0.0-release-1                            |       | amd64 | Small run-time speech synthesis engine - shared libraries   |
| ii libfluidsynth1:amd64             | 1.1.6-3                                    |       | amd64 | Real-time MIDI software synthesizer (runtime library)       |
| ii libfont-afm-perl                 | 1.20-1                                     | all   |       | Font::AFM - Interface to Adobe Font Metrics files           |
| ii libfontconfig1:amd64             | 2.11.94-0ubuntu1.1                         |       | amd64 | generic font configuration library - runtime                |
| ii libfontconfig1:i386              | 2.11.94-0ubuntu1.1                         |       | i386  | generic font configuration library - runtime                |
| ii libfontconfig1-dev:amd64         | 2.11.94-0ubuntu1.1                         |       | amd64 | generic font configuration library - development            |
| ii libfontembed1:amd64              | 1.8.3-2ubuntu3.1                           |       | amd64 | OpenPrinting CUPS Filters - Font Embed Shared library       |
| ii libfontenc1:amd64                | 1:1.1.3-1                                  |       | amd64 | X11 font encoding library                                   |
| ii libframe6:amd64                  | 2.5.0daily13.06.05+16.04.20160809-0ubuntu1 | amd64 |       | Touch Frame Library                                         |
| ii libfreehand-0.1-1:amd64          | 0.1.1-1ubuntu1                             |       | amd64 | Library for parsing the FreeHand file format structure      |
| ii libfreehep-export-java           | 2.1.1-2                                    |       | all   | FreeHEP Export and Save As Library                          |
| ii libfreehep-graphics2d-java       | 2.1.1-4                                    |       | all   | FreeHEP 2D Graphics Library                                 |
| ii libfreehep-graphicsio-emf-java   | 2.1.1-emfplus+dfsg1-2                      |       | all   | FreeHEP Enhanced Metafile Format Driver                     |
| ii libfreehep-graphicsio-java       | 2.1.1-3                                    |       | all   | FreeHEP GraphicsIO Base Library                             |
| ii libfreehep-graphicsio-pdf-java   | 2.1.1+dfsg-1                               |       |       | all FreeHEP Portable Document Format Driver                 |
| ii libfreehep-graphicsio-svg-java   | 2.1.1-3                                    |       | all   | FreeHEP Scalable Vector Graphics Driver                     |
| ii libfreehep-graphicsio-tests-java | 2.1.1+dfsg1-3                              |       | all   | FreeHEP GraphicsIO Test Library                             |
| ii libfreehep-io-java               | 2.0.2-4                                    |       | all   | FreeHEP I/O library                                         |

|    |                                   |                                            |       |                                                                |
|----|-----------------------------------|--------------------------------------------|-------|----------------------------------------------------------------|
| ii | libfreehep-swing-java             | 2.0.3-3                                    | all   | FreeHEP swing extensions                                       |
| ii | libfreehep-util-java              | 2.0.2-5                                    | all   | FreeHEP utility library                                        |
| ii | libfreehep-xml-java               | 2.1.2+dfsg1-3                              | all   | FreeHEP XML Library                                            |
| ii | libfreerdp-cache1.1:amd64         | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (cache library)           |
| ii | libfreerdp-client1.1:amd64        | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (client library)          |
| ii | libfreerdp-codec1.1:amd64         | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (codec library)           |
| ii | libfreerdp-common1.1.0:amd64      | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (common library)          |
| ii | libfreerdp-core1.1:amd64          | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (core library)            |
| ii | libfreerdp-crypto1.1:amd64        | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (freerdp-crypto library)  |
| ii | libfreerdp-gdi1.1:amd64           | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (GDI library)             |
| ii | libfreerdp-locale1.1:amd64        | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (locale library)          |
| ii | libfreerdp-plugins-standard:amd64 | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | RDP client for Windows Terminal Services (plugins)             |
| ii | libfreerdp-primitives1.1:amd64    | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (primitives library)      |
| ii | libfreerdp-utils1.1:amd64         | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Free Remote Desktop Protocol library (freerdp-utils library)   |
| ii | libfreetype6:amd64                | 2.6.1-0.1ubuntu2                           |       | FreeType 2 font engine, shared library files                   |
| ii | libfreetype6:i386                 | 2.6.1-0.1ubuntu2                           | i386  | FreeType 2 font engine, shared library files                   |
| ii | libfreetype6-dev:amd64            | 2.6.1-0.1ubuntu2                           | amd64 | FreeType 2 font engine, development files                      |
| ii | libfribidi0:amd64                 | 0.19.7-1                                   | amd64 | Free Implementation of the Unicode BiDi algorithm              |
| ii | libfuse2:amd64                    | 2.9.4-1ubuntu3.1                           | amd64 | Filesystem in Userspace (library)                              |
| ii | libfwupd0:amd64                   | 0.5-2ubuntu4                               | amd64 | Library to manage EFI firmware updates                         |
| ii | libfwupd1:amd64                   | 0.7.0-0ubuntu4.3                           |       | Firmware update daemon library                                 |
| ii | libgail-3-0:amd64                 | 3.18.9-1ubuntu3.1                          | amd64 | GNOME Accessibility Implementation Library -- shared libraries |
| ii | libgail-common:amd64              | 2.24.30-1ubuntu1                           | amd64 | GNOME Accessibility Implementation Library -- common modules   |
| ii | libgail18:amd64                   | 2.24.30-1ubuntu1                           | amd64 | GNOME Accessibility Implementation Library -- shared libraries |
| ii | libgbm1:amd64                     | 11.2.0-1ubuntu2.2                          | amd64 | generic buffer                                                 |

|                                                  |                                |                                              |       |                        |
|--------------------------------------------------|--------------------------------|----------------------------------------------|-------|------------------------|
| management API -- runtime                        |                                |                                              |       |                        |
| ii libgbm1:i386                                  | 11.2.0-1ubuntu2.2              |                                              | i386  | generic buffer         |
| management API -- runtime                        |                                |                                              |       |                        |
| ii libgc1c2:amd64                                |                                |                                              |       |                        |
| 1:7.4.2-7.3                                      | amd64                          | conservative garbage collector for C and C++ |       |                        |
| ii libgcab-1.0-0:amd64                           | 0.7-1                          |                                              | amd64 | Microsoft Cabinet file |
| manipulation library                             |                                |                                              |       |                        |
| ii libgcc-4.9-dev:amd64                          | 4.9.3-13ubuntu2                |                                              | amd64 | GCC support            |
| library (development files)                      |                                |                                              |       |                        |
| ii libgcc-5-dev:amd64                            | 5.4.0-6ubuntu1~16.04.4         |                                              | amd64 | GCC support            |
| library (development files)                      |                                |                                              |       |                        |
| ii libgcc1:amd64                                 | 1:6.0.1-0ubuntu1               |                                              | amd64 | GCC support library    |
| ii libgcc1:i386                                  | 1:6.0.1-0ubuntu1               |                                              | i386  | GCC support library    |
| ii libgck-1-0:amd64                              | 3.18.0-1ubuntu1                |                                              |       |                        |
| amd64                                            |                                | Glib wrapper library for PKCS#11 - runtime   |       |                        |
| ii libgconf-2-4:amd64                            | 3.2.6-3ubuntu6                 |                                              | amd64 | GNOME                  |
| configuration database system (shared libraries) |                                |                                              |       |                        |
| ii libgcr-3-common                               | 3.18.0-1ubuntu1                |                                              | all   | Library for Crypto UI  |
| related tasks - common files                     |                                |                                              |       |                        |
| ii libgcr-base-3-1:amd64                         | 3.18.0-1ubuntu1                |                                              | amd64 | Library for Crypto     |
| related tasks                                    |                                |                                              |       |                        |
| ii libgcr-ui-3-1:amd64                           | 3.18.0-1ubuntu1                |                                              | amd64 | Library for Crypto     |
| UI related tasks                                 |                                |                                              |       |                        |
| ii libgcrui3-dev                                 | 1.5.4-3+really1.6.5-2ubuntu0.2 |                                              | all   | transitional           |
| libgcrui3-dev package                            |                                |                                              |       |                        |
| ii libgcrui3:amd64                               | 1.6.5-2ubuntu0.2               |                                              |       |                        |
| amd64                                            |                                | LGPL Crypto library - runtime library        |       |                        |
| ii libgcrui3:i386                                | 1.6.5-2ubuntu0.2               |                                              | i386  | LGPL Crypto library -  |
| runtime library                                  |                                |                                              |       |                        |
| ii libgcrui3-dev                                 | 1.6.5-2ubuntu0.2               |                                              | amd64 | LGPL Crypto library    |
| - development files                              |                                |                                              |       |                        |
| ii libgd3:amd64                                  | 2.1.1-4ubuntu0.16.04.5         |                                              | amd64 | GD Graphics            |
| Library                                          |                                |                                              |       |                        |
| ii libgd3-common                                 | 0.17.4-1                       |                                              | all   | Library for accessing  |
| GData webservices - common data files            |                                |                                              |       |                        |
| ii libgd3:i386                                   | 0.17.4-1                       |                                              | amd64 | Library for accessing  |
| GData webservices - shared libraries             |                                |                                              |       |                        |
| ii libgdbm3:amd64                                | 1.8.3-13.1                     |                                              | amd64 |                        |
| GNU dbm database routines (runtime version)      |                                |                                              |       |                        |
| ii libgdiplus                                    | 4.2-1ubuntu1                   |                                              | amd64 | interface library for  |
| System.Drawing of Mono                           |                                |                                              |       |                        |
| ii libgdk-pixbuf2.0-0:amd64                      | 2.32.2-1ubuntu1.2              |                                              | amd64 | GDK Pixbuf             |
| library                                          |                                |                                              |       |                        |
| ii libgdk-pixbuf2.0-0:i386                       | 2.32.2-1ubuntu1.2              |                                              | i386  | GDK Pixbuf library     |
| ii libgdk-pixbuf2.0-common                       | 2.32.2-1ubuntu1.2              |                                              | all   | GDK Pixbuf             |
| library - data files                             |                                |                                              |       |                        |
| ii libgdk-pixbuf2.0-dev                          | 2.32.2-1ubuntu1.2              |                                              | amd64 | GDK Pixbuf             |
| library (development files)                      |                                |                                              |       |                        |

|                                                                                         |                                |       |                                                         |
|-----------------------------------------------------------------------------------------|--------------------------------|-------|---------------------------------------------------------|
| ii libgee-0.8-2:amd64<br>collection and utility library                                 | 0.18.0-1                       | amd64 | GObject based                                           |
| ii libgeis1:amd64<br>support                                                            | 2.2.17+16.04.20160126-0ubuntu1 | amd64 | Gesture engine interface                                |
| ii libgeoclue0:amd64                                                                    | 0.12.99-4ubuntu1               | amd64 | C API for GeoClue                                       |
| ii libgeoclue0:i386                                                                     | 0.12.99-4ubuntu1               | i386  | C API for GeoClue                                       |
| ii libgeocode-glib0:amd64<br>reverse geocoding GLib library using Nominatim             | 3.18.2-1                       | amd64 | geocoding and                                           |
| ii libgeoip1:amd64<br>resolver library                                                  | 1.6.9-1                        | amd64 | non-DNS IP-to-country                                   |
| ii libgeonames0:amd64<br>query the geonames database dump                               | 0.2+16.04.20160321-0ubuntu1    | amd64 | Parse and                                               |
| ii libgeronimo-interceptor-3.0-spec-java<br>1.0.1-3fakesync1                            | all                            |       | Geronimo API implementation of the Interceptor 3.0 spec |
| ii libgetopt-tabular-perl<br>parsing for Perl 5                                         | 0.3-2                          | all   | table-driven argument                                   |
| ii libgettextpo-dev:amd64<br>Internationalization library development files             | 0.19.7-2ubuntu3                | amd64 | GNU                                                     |
| ii libgettextpo0:amd64<br>Internationalization library                                  | 0.19.7-2ubuntu3                | amd64 | GNU                                                     |
| ii libgexiv2-2:amd64<br>around the Exiv2 library                                        | 0.10.3-2                       | amd64 | GObject-based wrapper                                   |
| ii libgfortran-5-dev:amd64<br>library for GNU Fortran applications (development files)  | 5.4.0-6ubuntu1~16.04.4         | amd64 | Runtime                                                 |
| ii libgfortran3:amd64<br>applications                                                   | 5.4.0-6ubuntu1~16.04.4         | amd64 | Runtime library for GNU Fortran                         |
| ii libgif7:amd64<br>(library)                                                           | 5.1.4-0.3~16.04                | amd64 | library for GIF images                                  |
| ii libgirepository-1.0-1:amd64<br>handling GObject introspection data (runtime library) | 1.46.0-3ubuntu1                | amd64 | Library for                                             |
| ii libgl1-mesa-dev:amd64<br>implementation of the OpenGL API -- GLX development files   | 11.2.0-1ubuntu2.2              | amd64 | free                                                    |
| ii libgl1-mesa-dri:amd64<br>implementation of the OpenGL API -- DRI modules             | 11.2.0-1ubuntu2.2              | amd64 | free                                                    |
| ii libgl1-mesa-dri:i386<br>of the OpenGL<br>API -- DRI modules                          | 11.2.0-1ubuntu2.2              | i386  | free implementation                                     |
| ii libgl1-mesa-glx:amd64<br>implementation of the OpenGL API -- GLX runtime             | 11.2.0-1ubuntu2.2              | amd64 | free                                                    |
| ii libgl1-mesa-glx:i386<br>of the OpenGL API -- GLX runtime                             | 11.2.0-1ubuntu2.2              | i386  | free implementation                                     |
| ii libglapi-mesa:amd64<br>implementation of the GL API -- shared library                | 11.2.0-1ubuntu2.2              | amd64 | free                                                    |
| ii libglapi-mesa:i386<br>of the GL API -- shared library                                | 11.2.0-1ubuntu2.2              | i386  | free implementation                                     |
| ii libglew1.13:amd64                                                                    | 1.13.0-2                       | amd64 | OpenGL Extension                                        |

|                                |                                                               |                        |       |                                                                 |
|--------------------------------|---------------------------------------------------------------|------------------------|-------|-----------------------------------------------------------------|
| Wrangler - runtime environment |                                                               |                        |       |                                                                 |
| ii                             | libglewmx1.13:amd64                                           | 1.13.0-2               |       |                                                                 |
|                                | amd64 OpenGL Extension Wrangler (Multiple Rendering Contexts) |                        |       |                                                                 |
| ii                             | libglb2.0-0:amd64                                             | 2.48.2-0ubuntu1        | amd64 | GLib library of C routines                                      |
| ii                             | libglb2.0-0:i386                                              | 2.48.2-0ubuntu1        | i386  | GLib library of C routines                                      |
| ii                             | libglb2.0-bin                                                 | 2.48.2-0ubuntu1        | amd64 | Programs for the GLib library                                   |
| ii                             | libglb2.0-data                                                | 2.48.2-0ubuntu1        | all   | Common files for GLib library                                   |
| ii                             | libglb2.0-dev                                                 | 2.48.2-0ubuntu1        | amd64 | Development files for the GLib library                          |
| ii                             | libglbmm-2.4-1v5:amd64                                        | 2.46.3-1               | amd64 | C++ wrapper for the GLib toolkit (shared libraries)             |
| ii                             | libglu1-mesa:amd64                                            | 9.0.0-2.1              | amd64 | Mesa OpenGL utility library (GLU)                               |
| ii                             | libgme0:amd64                                                 | 0.6.0-3ubuntu0.16.04.1 | amd64 | Playback library for video game music files - shared library    |
| ii                             | libgmime-2.6-0:amd64                                          | 2.6.20-1               | amd64 | MIME message parser and creator library - runtime               |
| ii                             | libgmp-dev:amd64                                              | 2:6.1.0+dfsg-2         | amd64 | Multiprecision arithmetic library developers tools              |
| ii                             | libgmp10:amd64                                                | 2:6.1.0+dfsg-2         | amd64 | Multiprecision arithmetic library                               |
| ii                             | libgmp10:i386                                                 | 2:6.1.0+dfsg-2         | i386  | Multiprecision arithmetic library                               |
| ii                             | libgmpxx4ldbl:amd64                                           | 2:6.1.0+dfsg-2         | amd64 | Multiprecision arithmetic library (C++ bindings)                |
| ii                             | libgnome-bluetooth13:amd64                                    | 3.18.2-1ubuntu2        | amd64 | GNOME Bluetooth tools - support library                         |
| ii                             | libgnome-desktop-3-12:amd64                                   | 3.18.2-1ubuntu1        | amd64 | Utility library for loading .desktop files - runtime files      |
| ii                             | libgnome-keyring-common                                       | 3.12.0-1build1         | all   | GNOME keyring services library - data files                     |
| ii                             | libgnome-keyring0:amd64                                       | 3.12.0-1build1         | amd64 | GNOME keyring services library                                  |
| ii                             | libgnome-menu-3-0:amd64                                       | 3.13.3-6ubuntu3.1      | amd64 | GNOME implementation of the freedesktop menu specification      |
| ii                             | libgnomekbd-common                                            | 3.6.0-1ubuntu2         | all   | GNOME library to manage keyboard configuration - common files   |
| ii                             | libgnomekbd8:amd64                                            | 3.6.0-1ubuntu2         | amd64 | GNOME library to manage keyboard configuration - shared library |
| ii                             | libgnutls-openssl27:amd64                                     | 3.4.10-4ubuntu1.2      | amd64 | GNU TLS library - OpenSSL wrapper                               |
| ii                             | libgnutls30:amd64                                             | 3.4.10-4ubuntu1.2      | amd64 | GNU TLS library -                                               |

|                                                                        |                               |       |                         |  |
|------------------------------------------------------------------------|-------------------------------|-------|-------------------------|--|
| main runtime library                                                   |                               |       |                         |  |
| ii libgnutls30:i386                                                    | 3.4.10-4ubuntu1.2             | i386  | GNU TLS library -       |  |
| main runtime library                                                   |                               |       |                         |  |
| ii libgoa-1.0-0b:amd64                                                 | 3.18.3-1ubuntu2               |       |                         |  |
| amd64 library for GNOME Online Accounts                                |                               |       |                         |  |
| ii libgoa-1.0-common                                                   | 3.18.3-1ubuntu2               | all   | library for GNOME       |  |
| Online Accounts - common files                                         |                               |       |                         |  |
| ii libgom-1.0-0:amd64                                                  | 0.3.1-1                       | amd64 | Object mapper from      |  |
| GObjects to SQLite                                                     |                               |       |                         |  |
| ii libgom-1.0-common                                                   | 0.3.1-1                       | all   | libgom architecture-    |  |
| independent files                                                      |                               |       |                         |  |
| ii libgomp1:amd64                                                      | 5.4.0-6ubuntu1~16.04.4        | amd64 | GCC OpenMP              |  |
| (GOMP) support library                                                 |                               |       |                         |  |
| ii libgpg-error-dev                                                    | 1.21-2ubuntu1                 | amd64 | library for common      |  |
| error values and messages in GnuPG components (development)            |                               |       |                         |  |
| ii libgpg-error0:amd64                                                 | 1.21-2ubuntu1                 |       |                         |  |
| amd64 library for common error values and messages in GnuPG components |                               |       |                         |  |
| ii libgpg-error0:i386                                                  | 1.21-2ubuntu1                 | i386  | library for common      |  |
| error values and messages in GnuPG components                          |                               |       |                         |  |
| ii libgpgme11:amd64                                                    | 1.6.0-1                       | amd64 | GPGME - GnuPG           |  |
| Made Easy (library)                                                    |                               |       |                         |  |
| ii libgphoto2-6:amd64                                                  | 2.5.9-3                       | amd64 | gphoto2 digital camera  |  |
| library                                                                |                               |       |                         |  |
| ii libgphoto2-110n                                                     | 2.5.9-3                       | all   | gphoto2 digital camera  |  |
| library - localized messages                                           |                               |       |                         |  |
| ii libgphoto2-port12:amd64                                             | 2.5.9-3                       | amd64 | gphoto2 digital         |  |
| camera port library                                                    |                               |       |                         |  |
| ii libgpm2:amd64                                                       | 1.20.4-6.1                    |       |                         |  |
| amd64 General Purpose Mouse - shared library                           |                               |       |                         |  |
| ii libgpm2:i386                                                        | 1.20.4-6.1                    | i386  | General Purpose Mouse - |  |
| shared library                                                         |                               |       |                         |  |
| ii libgpod-common                                                      | 0.8.3-6ubuntu2                | amd64 | common files for        |  |
| libgpod                                                                |                               |       |                         |  |
| ii libgpod4:amd64                                                      | 0.8.3-6ubuntu2                | amd64 | library to read and     |  |
| write songs and artwork to an iPod                                     |                               |       |                         |  |
| ii libgrail6                                                           | 3.1.0+16.04.20160125-0ubuntu1 | amd64 | Gesture                 |  |
| Recognition And Instantiation Library                                  |                               |       |                         |  |
| ii libgraphite2-3:amd64                                                | 1.3.6-1ubuntu1                | amd64 | Font rendering          |  |
| engine for Complex Scripts -- library                                  |                               |       |                         |  |
| ii libgraphite2-3:i386                                                 | 1.3.6-1ubuntu1                |       |                         |  |
| i386 Font rendering engine for Complex Scripts -- library              |                               |       |                         |  |
| ii libgrilo-0.2-1:amd64                                                | 0.2.15-1                      | amd64 | Framework for           |  |
| discovering and browsing media - Shared libraries                      |                               |       |                         |  |
| ii libgs9:amd64                                                        | 9.18~dfsg~0-0ubuntu2.3        | amd64 | interpreter for the     |  |
| PostScript language and for PDF - Library                              |                               |       |                         |  |
| ii libgs9-common                                                       | 9.18~dfsg~0-0ubuntu2.3        | all   | interpreter for the     |  |
| PostScript language and for PDF - common files                         |                               |       |                         |  |
| ii libgsettings-qt1:amd64                                              | 0.1+16.04.20160329-0ubuntu1   | amd64 | Library to              |  |

|                                                                |                               |       |                                 |  |
|----------------------------------------------------------------|-------------------------------|-------|---------------------------------|--|
| access GSettings from Qt                                       |                               |       |                                 |  |
| ii libgsl2:amd64                                               | 2.1+dfsg-2                    | amd64 | GNU Scientific Library          |  |
| (GSL) -- library package                                       |                               |       |                                 |  |
| ii libgsm1:amd64                                               | 1.0.13-4                      | amd64 | Shared libraries for GSM speech |  |
| compressor                                                     |                               |       |                                 |  |
| ii libgssapi-krb5-2:amd64                                      | 1.13.2+dfsg-5ubuntu1          | amd64 | MIT Kerberos                    |  |
| runtime libraries - krb5 GSS-API Mechanism                     |                               |       |                                 |  |
| ii libgssapi-krb5-2:i386                                       | 1.13.2+dfsg-5ubuntu1          | i386  | MIT Kerberos                    |  |
| runtime libraries - krb5 GSS-API Mechanism                     |                               |       |                                 |  |
| ii libgssapi3-heimdal:amd64                                    | 1.7~git20150920+dfsg-4ubuntu1 | amd64 | Heimdal                         |  |
| Kerberos - GSSAPI support library                              |                               |       |                                 |  |
| ii libgstreamer-plugins-bad1.0-0:amd64                         | 1.8.2-1ubuntu0.2              | amd64 | GStreamer                       |  |
| development files for libraries from the "bad" set             |                               |       |                                 |  |
| ii libgstreamer-plugins-base1.0-0:amd64                        | 1.8.2-1ubuntu0.2              | amd64 | GStreamer                       |  |
| libraries                                                      |                               |       |                                 |  |
| from the "base" set                                            |                               |       |                                 |  |
| ii libgstreamer-plugins-base1.0-0:i386                         | 1.8.2-1ubuntu0.2              | i386  | GStreamer                       |  |
| libraries from the "base" set                                  |                               |       |                                 |  |
| ii libgstreamer-plugins-good1.0-0:amd64                        | 1.8.2-1ubuntu0.3              | amd64 | GStreamer                       |  |
| development files for libraries from the "good" set            |                               |       |                                 |  |
| ii libgstreamer-plugins-good1.0-0:i386                         | 1.8.2-1ubuntu0.3              | i386  | GStreamer                       |  |
| development files for libraries from the "good" set            |                               |       |                                 |  |
| ii libgstreamer1.0-0:amd64                                     | 1.8.2-1~ubuntu1               | amd64 | Core GStreamer                  |  |
| libraries and elements                                         |                               |       |                                 |  |
| ii libgstreamer1.0-0:i386                                      | 1.8.2-1~ubuntu1               | i386  | Core GStreamer                  |  |
| libraries and elements                                         |                               |       |                                 |  |
| ii libgtk-3-0:amd64                                            | 3.18.9-1ubuntu3.1             | amd64 |                                 |  |
| GTK+ graphical user interface library                          |                               |       |                                 |  |
| ii libgtk-3-bin                                                | 3.18.9-1ubuntu3.1             | amd64 | programs for the GTK+           |  |
| graphical user interface library                               |                               |       |                                 |  |
| ii libgtk-3-common                                             | 3.18.9-1ubuntu3.1             | all   | common files for the            |  |
| GTK+ graphical user interface library                          |                               |       |                                 |  |
| ii libgtk2.0-0:amd64                                           | 2.24.30-1ubuntu1              | amd64 | GTK+ graphical                  |  |
| user interface library                                         |                               |       |                                 |  |
| ii libgtk2.0-0:i386                                            | 2.24.30-1ubuntu1              | i386  | GTK+ graphical user             |  |
| interface library                                              |                               |       |                                 |  |
| ii libgtk2.0-bin                                               | 2.24.30-1ubuntu1              | amd64 | programs for the                |  |
| GTK+ graphical user interface library                          |                               |       |                                 |  |
| ii libgtk2.0-common                                            | 2.24.30-1ubuntu1              |       |                                 |  |
| all common files for the GTK+ graphical user interface library |                               |       |                                 |  |
| ii libgtk2.0-dev                                               | 2.24.30-1ubuntu1              | amd64 | development files for           |  |
| the GTK+ library                                               |                               |       |                                 |  |
| ii libgtkglex1:amd64                                           | 1.2.0-3.2fakesync1ubuntu1     | amd64 | OpenGL                          |  |
| Extension to GTK+ (shared libraries)                           |                               |       |                                 |  |
| ii libgtkmm-3.0-1v5:amd64                                      | 3.18.0-1                      | amd64 | C++ wrappers for                |  |
| GTK+ (shared libraries)                                        |                               |       |                                 |  |
| ii libgtkserviceview-3.0-1:amd64                               | 3.18.2-1                      | amd64 | shared libraries for            |  |

|                                               |                                    |       |       |                                                            |
|-----------------------------------------------|------------------------------------|-------|-------|------------------------------------------------------------|
| the GTK+ syntax highlighting widget           |                                    |       |       |                                                            |
| ii libgtksourceview-3.0-common                | 3.18.2-1                           |       | all   | common files for the                                       |
| GTK+ syntax highlighting widget               |                                    |       |       |                                                            |
| ii libgtksPELL3-3-0:amd64                     | 3.0.7-2                            |       |       |                                                            |
| amd64                                         |                                    |       |       | spell-checking addon for GTK+'s TextView widget            |
| ii libgtop-2.0-10:amd64                       | 2.32.0-1                           |       | amd64 | gtop system                                                |
| monitoring library (shared)                   |                                    |       |       |                                                            |
| ii libgtop2-common                            | 2.32.0-1                           |       | all   | gtop system monitoring                                     |
| library (common)                              |                                    |       |       |                                                            |
| ii libguava-java                              | 19.0-1                             |       | all   | Suite of Google common                                     |
| libraries for Java                            |                                    |       |       |                                                            |
| ii libgucharmap-2-90-7:amd64                  | 1:3.18.2-1ubuntu1                  |       | amd64 | Unicode                                                    |
| browser widget library (shared library)       |                                    |       |       |                                                            |
| ii libgudev-1.0-0:amd64                       | 1:230-2                            |       | amd64 | GObject-based                                              |
| wrapper library for libudev                   |                                    |       |       |                                                            |
| ii libgudev-1.0-0:i386                        | 1:230-2                            |       |       |                                                            |
| i386                                          |                                    |       |       | GObject-based wrapper library for libudev                  |
| ii libguice-java                              | 4.0-2                              |       | all   | lightweight dependency                                     |
| injection framework for Java 5 and above      |                                    |       |       |                                                            |
| ii libgusb2:amd64                             | 0.2.9-0ubuntu1                     |       | amd64 | GLib wrapper around                                        |
| libusb1                                       |                                    |       |       |                                                            |
| ii libgutenprint2                             | 5.2.11-1                           |       | amd64 | runtime for the Gutenprint                                 |
| printer driver library                        |                                    |       |       |                                                            |
| ii libgvc6                                    | 2.38.0-12ubuntu2.1                 |       | amd64 | rich set of graph                                          |
| drawing tools - gvc library                   |                                    |       |       |                                                            |
| ii libgvpr2                                   | 2.38.0-12ubuntu2.1                 |       | amd64 | rich set of graph                                          |
| drawing tools - gvpr library                  |                                    |       |       |                                                            |
| ii libgweather-3-6:amd64                      |                                    |       |       |                                                            |
| 3.18.2-0ubuntu0.1                             |                                    | amd64 |       | GWeather shared library                                    |
| ii libgweather-common                         | 3.18.2-0ubuntu0.1                  |       | all   | GWeather common                                            |
| files                                         |                                    |       |       |                                                            |
| ii libgxps2:amd64                             | 0.2.3.2-1                          |       | amd64 | handling and rendering                                     |
| XPS documents (library)                       |                                    |       |       |                                                            |
| ii libhamcrest-java                           | 1.3-5ubuntu1                       |       | all   | library of matchers for                                    |
| building test expressions                     |                                    |       |       |                                                            |
| ii libhardware2                               | 0.1.0+git20151016+6d424c9-0ubuntu7 |       | amd64 | Library to                                                 |
| provide access to the Android libhardware HAL |                                    |       |       |                                                            |
| ii libharfbuzz-dev                            | 1.0.1-1ubuntu0.1                   |       | amd64 | Development files for                                      |
| OpenType text shaping engine                  |                                    |       |       |                                                            |
| ii libharfbuzz-gobject0:amd64                 | 1.0.1-1ubuntu0.1                   |       |       |                                                            |
| amd64                                         |                                    |       |       | OpenType text shaping engine ICU backend (GObject library) |
| ii libharfbuzz-icu0:amd64                     | 1.0.1-1ubuntu0.1                   |       | amd64 | OpenType text                                              |
| shaping engine ICU backend                    |                                    |       |       |                                                            |
| ii libharfbuzz-icu0:i386                      | 1.0.1-1ubuntu0.1                   |       | i386  | OpenType text                                              |
| shaping engine ICU backend                    |                                    |       |       |                                                            |
| ii libharfbuzz0b:amd64                        | 1.0.1-1ubuntu0.1                   |       | amd64 | OpenType text                                              |
| shaping engine (shared library)               |                                    |       |       |                                                            |
| ii libharfbuzz0b:i386                         | 1.0.1-1ubuntu0.1                   |       | i386  | OpenType text                                              |

|                                                     |  |                                    |       |                                              |
|-----------------------------------------------------|--|------------------------------------|-------|----------------------------------------------|
| shaping engine (shared library)                     |  |                                    |       |                                              |
| ii libcrypto4-heimdal:amd64                         |  | 1.7~git20150920+dfsg-4ubuntu1      | amd64 | Heimdal                                      |
| Kerberos - crypto library                           |  |                                    |       |                                              |
| ii libheimbase1-heimdal:amd64                       |  | 1.7~git20150920+dfsg-4ubuntu1      | amd64 | Heimdal Kerberos - Base library              |
| ii libheimntlm0-heimdal:amd64                       |  | 1.7~git20150920+dfsg-4ubuntu1      | amd64 |                                              |
| Heimdal Kerberos - NTLM support library             |  |                                    |       |                                              |
| ii libhighgui-dev:amd64                             |  | 2.4.9.1+dfsg-1.5ubuntu1            | amd64 | Translation                                  |
| package for libhighgui-dev                          |  |                                    |       |                                              |
| ii libhogweed4:amd64                                |  | 3.2-1ubuntu0.16.04.1               | amd64 | low level                                    |
| cryptographic library (public-key cryptos)          |  |                                    |       |                                              |
| ii libhogweed4:i386                                 |  | 3.2-1ubuntu0.16.04.1               | i386  | low level                                    |
| cryptographic library (public-key cryptos)          |  |                                    |       |                                              |
| ii libhpmud0:amd64                                  |  | 3.16.3+repack0-1                   | amd64 | HP Multi-Point                               |
| Transport Driver (hpmud) run-time libraries         |  |                                    |       |                                              |
| ii libhtml-form-perl                                |  | 6.03-1                             | all   | module that represents an HTML form element  |
| ii libhtml-format-perl                              |  | 2.11-2                             | all   | module for transforming                      |
| HTML into various formats                           |  |                                    |       |                                              |
| ii libhtml-parser-perl                              |  | 3.72-1                             | amd64 | collection of modules that                   |
| parse HTML text documents                           |  |                                    |       |                                              |
| ii libhtml-tagset-perl                              |  | 3.20-2                             | all   | Data tables pertaining to                    |
| HTML                                                |  |                                    |       |                                              |
| ii libhtml-tree-perl                                |  | 5.03-2                             | all   | Perl module to represent and                 |
| create HTML syntax trees                            |  |                                    |       |                                              |
| ii libhttp-cookies-perl                             |  | 6.01-1                             | all   | HTTP cookie jars                             |
| ii libhttp-daemon-perl                              |  | 6.01-1                             | all   | simple http server class                     |
| ii libhttp-date-perl                                |  | 6.02-1                             | all   | module of date conversion                    |
| routines                                            |  |                                    |       |                                              |
| ii libhttp-message-perl                             |  | 6.11-1                             | all   | perl interface to HTTP style                 |
| messages                                            |  |                                    |       |                                              |
| ii libhttp-negotiate-perl                           |  | 6.00-2                             | all   | implementation of content                    |
| negotiation                                         |  |                                    |       |                                              |
| ii libhttpclient-java                               |  | 4.5.1-1                            | all   | HTTP/1.1 compliant HTTP                      |
| agent implementation                                |  |                                    |       |                                              |
| ii libhttpcore-java                                 |  | 4.4.4-1                            | all   | set of low level HTTP                        |
| transport components for Java                       |  |                                    |       |                                              |
| ii libhud2:amd64                                    |  | 14.10+16.04.20160415-0ubuntu1      | amd64 | library for exporting items to the Unity HUD |
| ii libhunspell-1.3-0:amd64                          |  | 1.3.3-4ubuntu1                     | amd64 | spell checker and                            |
| morphological analyzer (shared library)             |  |                                    |       |                                              |
| ii libhunspell-1.3-0:i386                           |  | 1.3.3-4ubuntu1                     | i386  | spell checker and                            |
| morphological analyzer (shared library)             |  |                                    |       |                                              |
| ii libhx509-5-heimdal:amd64                         |  | 1.7~git20150920+dfsg-4ubuntu1      | amd64 | Heimdal                                      |
| Kerberos - X509 support library                     |  |                                    |       |                                              |
| ii libhybris                                        |  | 0.1.0+git20151016+6d424c9-0ubuntu7 | amd64 | Allows to run                                |
| bionic-based HW adaptations in glibc systems - libs |  |                                    |       |                                              |

|                                                                  |                                    |       |                                                               |
|------------------------------------------------------------------|------------------------------------|-------|---------------------------------------------------------------|
| ii libhybris-common1                                             | 0.1.0+git20151016+6d424c9-0ubuntu7 | amd64 |                                                               |
| Common library that contains the Android linker and custom hooks |                                    |       |                                                               |
| ii libhyphen0:amd64                                              | 2.8.8-2ubuntu1                     | amd64 | ALTLinux hyphenation library - shared library                 |
| ii libibus-1.0-5:amd64                                           | 1.5.11-1ubuntu2                    | amd64 | Intelligent Input Bus - shared library                        |
| ii libical1a:amd64                                               | 1.0.1-0ubuntu2                     | amd64 | iCalendar library implementation in C (runtime)               |
| ii libice-dev:amd64                                              | 2:1.0.9-1                          | amd64 | X11 Inter-Client Exchange library (development headers)       |
| ii libice6:amd64                                                 | 2:1.0.9-1                          | amd64 | X11 Inter-Client Exchange library                             |
| ii libice6:i386                                                  | 2:1.0.9-1                          | i386  | X11 Inter-Client Exchange library                             |
| ii libicu-dev:amd64                                              | 55.1-7                             | amd64 | Development files for International Components for Unicode    |
| ii libicu55:amd64                                                | 55.1-7                             | amd64 | International Components for Unicode                          |
| ii libicu55:i386                                                 | 55.1-7                             | i386  | International Components for Unicode                          |
| ii libidn11:amd64                                                | 1.32-3ubuntu1.1                    | amd64 | GNU Libidn library, implementation of IETF IDN specifications |
| ii libidn11:i386                                                 | 1.32-3ubuntu1.1                    | i386  | GNU Libidn library, implementation of IETF IDN specifications |
| ii libido3-0.1-0:amd64                                           | 13.10.0+16.04.20161028-0ubuntu1    | amd64 | Shared library providing extra gtk menu items for display in  |
| ii libiec61883-0:amd64                                           | 1.2.0-0.2                          | amd64 | an partial implementation of IEC 61883                        |
| ii libiec61883-0:i386                                            | 1.2.0-0.2                          | i386  | an partial implementation of IEC 61883                        |
| ii libieee1284-3:amd64                                           | 0.2.11-12                          | amd64 | cross-platform library for parallel port access               |
| ii libijs-0.35:amd64                                             | 0.35-12                            | amd64 | IJS raster image transport protocol: shared library           |
| ii libilmbase-dev                                                | 2.2.0-11ubuntu2                    | amd64 | development files for IlmBase                                 |
| ii libilmbase12:amd64                                            | 2.2.0-11ubuntu2                    | amd64 | several utility libraries from ILM used by OpenEXR            |
| ii libimobiledevice6:amd64                                       | 1.2.0+dfsg-3~ubuntu0.2             | amd64 | Library for communicating with the iPhone and iPod Touch      |
| ii libindicator3-7                                               | 12.10.2+16.04.20151208-0ubuntu1    | amd64 | panel indicator applet - shared library                       |
| ii libindicator7                                                 | 12.10.2+16.04.20151208-0ubuntu1    | amd64 | panel indicator applet - shared library                       |

|    |                                                                             |                                          |       |                                |
|----|-----------------------------------------------------------------------------|------------------------------------------|-------|--------------------------------|
| ii | libinput10:amd64<br>management and event handling library - shared library  | 1.2.3-1ubuntu1                           | amd64 | input device                   |
| ii | libio-html-perl<br>automatic charset detection                              | 1.001-1                                  | all   | open an HTML file with         |
| ii | libio-pty-perl<br>amd64 Perl module for pseudo tty IO                       | 1:1.08-1.1build1                         |       |                                |
| ii | libio-socket-inet6-perl<br>AF_INET6 domain sockets                          | 2.72-2                                   | all   | object interface for           |
| ii | libio-socket-ssl-perl<br>object oriented interface to SSL sockets           | 2.024-1                                  | all   | Perl module implementing       |
| ii | libio-string-perl<br>in-core strings                                        | 1.08-3                                   | all   | Emulate IO::File interface for |
| ii | libipc-run-perl<br>processes                                                | 0.94-1                                   | all   | Perl module for running        |
| ii | libipc-system-simple-perl<br>commands simply, with detailed diagnostics     | 1.25-3                                   | all   | Perl module to run             |
| ii | libisc-export160<br>amd64 Exported ISC Shared Library                       | 1:9.10.3.dfsg.P4-8ubuntu1.4              |       |                                |
| ii | libisc160:amd64<br>Library used by BIND                                     | 1:9.10.3.dfsg.P4-8ubuntu1.4              | amd64 | ISC Shared                     |
| ii | libisccc140:amd64<br>Channel Library used by BIND                           | 1:9.10.3.dfsg.P4-8ubuntu1.4              | amd64 | Command                        |
| ii | libisccfg140:amd64<br>Handling Library used by BIND                         | 1:9.10.3.dfsg.P4-8ubuntu1.4              | amd64 | Config File                    |
| ii | libisl15:amd64<br>relations of integer points bounded by linear constraints | 0.16.1-1                                 | amd64 | manipulating sets and          |
| ii | libitm1:amd64<br>Transactional Memory Library                               | 5.4.0-6ubuntu1~16.04.4                   | amd64 | GNU                            |
| ii | libiw30:amd64<br>amd64 Wireless tools - library                             | 30~pre9-8ubuntu1                         |       |                                |
| ii | libjack-jackd2-0:amd64<br>JACK Audio Connection Kit (libraries)             | 1.9.10+20150825git1ed50c92~dfsg-1ubuntu1 | amd64 |                                |
| ii | libjack-jackd2-0:i386<br>Audio Connection Kit (libraries)                   | 1.9.10+20150825git1ed50c92~dfsg-1ubuntu1 | i386  | JACK                           |
| ii | libjas-java<br>Algebra System                                               | 2.5.4408-1                               | all   | Java object-oriented type-safe |
| ii | libjas-plotter-java<br>library                                              | 2.2.6+dfsg1-2                            | all   | JAS(2) Plotter graphic         |
| ii | libjasper-dev<br>for the JasPer JPEG-2000 library                           | 1.900.1-debian1-2.4ubuntu1               | amd64 | Development files              |
| ii | libjasper1:amd64<br>JasPer JPEG-2000 runtime library                        | 1.900.1-debian1-2.4ubuntu1               | amd64 |                                |
| ii | libjavascriptcoregtk-1.0-0:i386<br>library from WebKitGTK+                  | 2.4.11-0ubuntu0.1                        | i386  | JavaScript engine              |
| ii | libjavascriptcoregtk-4.0-18:amd64<br>engine library from WebKitGTK+         | 2.14.3-0ubuntu0.16.04.1                  | amd64 | JavaScript                     |
| ii | libjavascriptcoregtk-4.0-18:i386<br>engine library from WebKitGTK+          | 2.14.3-0ubuntu0.16.04.1                  | i386  | JavaScript                     |

|    |                                                                         |                    |       |                                            |
|----|-------------------------------------------------------------------------|--------------------|-------|--------------------------------------------|
| ii | libjaxen-java                                                           | 1.1.6-1ubuntu1     | all   | Java XPath engine                          |
| ii | libjxp1.3-java<br>transformer APIs (DOM, SAX, JAXP, TrAX)               | 1.3.05-2ubuntu3    | all   | Java XML parser and                        |
| ii | libjbig-dev:amd64<br>files                                              | 2.1-3.1            | amd64 | JBIGkit development                        |
| ii | libjbig0:amd64                                                          | 2.1-3.1            | amd64 | JBIGkit libraries                          |
| ii | libjbig0:i386                                                           | 2.1-3.1            | i386  | JBIGkit libraries                          |
| ii | libjbig2dec0<br>- shared libraries                                      | 0.12+20150918-1    | amd64 | JBIG2 decoder library                      |
| ii | libjcommon-java<br>Java                                                 | 1.0.16-5           | all   | General Purpose library for                |
| ii | libjdom1-java<br>using XML                                              | 1.1.3-1            | all   | lightweight and fast library               |
| ii | libjetty-java<br>webserver -- core libraries                            | 6.1.26-5           | all   | Java servlet engine and                    |
| ii | libjfreechart-java<br>1.0.13-8                                          | all                |       | Chart library for Java                     |
| ii | libjfugue-java<br>programming                                           | 4.0.3-3            | all   | Java API for music                         |
| ii | libjlatexmath-java<br>math mode wrote in Java                           | 1.0.3-1            | all   | Implementation of LaTeX                    |
| ii | libjpeg-dev:amd64<br>Group's JPEG runtime library (dependency package)  | 8c-2ubuntu8        | amd64 | Independent JPEG                           |
| ii | libjpeg-turbo8:amd64<br>compliant runtime library.                      | 1.4.2-0ubuntu3     | amd64 | IJG JPEG                                   |
| ii | libjpeg-turbo8:i386<br>runtime library.                                 | 1.4.2-0ubuntu3     | i386  | IJG JPEG compliant                         |
| ii | libjpeg-turbo8-dev:amd64<br>amd64                                       | 1.4.2-0ubuntu3     |       | Development files for the IJG JPEG library |
| ii | libjpeg62:i386<br>JPEG runtime library (version 6.2)                    | 1:6b2-2            | i386  | Independent JPEG Group's                   |
| ii | libjpeg8:amd64<br>Group's JPEG runtime library (dependency package)     | 8c-2ubuntu8        | amd64 | Independent JPEG                           |
| ii | libjpeg8:i386<br>Group's JPEG runtime library (dependency package)      | 8c-2ubuntu8        | i386  | Independent JPEG                           |
| ii | libjpeg8-dev:amd64<br>Group's JPEG runtime library (dependency package) | 8c-2ubuntu8        | amd64 | Independent JPEG                           |
| ii | libjs-inherits<br>environment                                           | 2.0.1-3            | all   | Exposes inherits function from             |
| ii | libjs-jquery<br>dynamic web applications                                | 1.11.3+dfsg-4      | all   | JavaScript library for                     |
| ii | libjs-modernizr<br>detect HTML5 and CSS3 features in the user's browser | 2.6.2+ds1-1ubuntu1 | all   | JavaScript library to                      |
| ii | libjs-node-uuid<br>RFC4122 UUIDs - JavaScript library                   | 1.4.0-1            | all   | simple, fast generation of                 |
| ii | libjs-sphinxdoc                                                         | 1.3.6-2ubuntu1     | all   | JavaScript support for                     |

|                             |                                                           |      |       |                                                                      |
|-----------------------------|-----------------------------------------------------------|------|-------|----------------------------------------------------------------------|
| Sphinx documentation        |                                                           |      |       |                                                                      |
| ii libjs-underscore         | 1.7.0~dfsg-1ubuntu1                                       |      | all   | JavaScript's functional programming helper library                   |
| ii libjsch-java             | 0.1.53-1ubuntu1                                           |      |       |                                                                      |
| all                         | Java implementation of the SSH2 protocol                  |      |       |                                                                      |
| ii libjson-c2:amd64         | 0.11-4ubuntu2                                             |      | amd64 | JSON manipulation library - shared library                           |
| ii libjson-c2:i386          | 0.11-4ubuntu2                                             |      | i386  | JSON manipulation library - shared library                           |
| ii libjson-glib-1.0-0:amd64 | 1.1.2-0ubuntu1                                            |      | amd64 | GLib JSON manipulation library                                       |
| ii libjson-glib-1.0-common  | 1.1.2-0ubuntu1                                            |      | all   | GLib JSON manipulation library (common files)                        |
| ii libjsoncpp1:amd64        | 1.7.2-1                                                   |      | amd64 | library for reading and writing JSON for C++                         |
| ii libjsoup-java            | 1.8.3-1                                                   |      |       |                                                                      |
| all                         | Java HTML parser that makes sense of real-world HTML soup |      |       |                                                                      |
| ii libjsr305-java           | 0.1~+svn49-9                                              |      | all   | Java library that provides annotations for software defect detection |
| ii libk5crypto3:amd64       | 1.13.2+dfsg-5ubuntu1                                      |      | amd64 | MIT Kerberos runtime libraries - Crypto Library                      |
| ii libk5crypto3:i386        | 1.13.2+dfsg-5ubuntu1                                      |      | i386  | MIT Kerberos runtime libraries - Crypto Library                      |
| ii libkate1:amd64           | 0.4.1-7                                                   |      | amd64 | Codec for karaoke and text encapsulation                             |
| ii libkeyutils1:amd64       | 1.5.9-8ubuntu1                                            |      | amd64 | Linux Key Management Utilities (library)                             |
| ii libkeyutils1:i386        | 1.5.9-8ubuntu1                                            | i386 |       | Linux Key Management Utilities (library)                             |
| ii libklibc                 | 2.0.4-8ubuntu1.16.04.2                                    |      | amd64 | minimal libc subset for use with initramfs                           |
| ii libkmod2:amd64           | 22-1ubuntu4                                               |      | amd64 | libkmod shared library                                               |
| ii libkpathsea6:amd64       | 2015.20160222.37495-1                                     |      | amd64 | TeX Live: path search library for TeX (runtime part)                 |
| ii libkrb5-26-heimdal:amd64 | 1.7~git20150920+dfsg-4ubuntu1                             |      | amd64 | Heimdal Kerberos - libraries                                         |
| ii libkrb5-3:amd64          | 1.13.2+dfsg-5ubuntu1                                      |      | amd64 | MIT Kerberos runtime libraries                                       |
| ii libkrb5-3:i386           | 1.13.2+dfsg-5ubuntu1                                      |      | i386  | MIT Kerberos runtime libraries                                       |
| ii libkrb5support0:amd64    | 1.13.2+dfsg-5ubuntu1                                      |      | amd64 | MIT Kerberos runtime libraries - Support library                     |
| ii libkrb5support0:i386     | 1.13.2+dfsg-5ubuntu1                                      |      | i386  | MIT Kerberos runtime libraries - Support library                     |
| ii libksba8:amd64           | 1.3.3-1ubuntu0.16.04.1                                    |      | amd64 | X.509 and CMS support library                                        |
| ii liblangtag-common        | 0.5.7-2ubuntu1                                            |      | all   | library to access tags                                               |

|                                                   |                                                              |       |                                    |
|---------------------------------------------------|--------------------------------------------------------------|-------|------------------------------------|
| for identifying languages -- data                 |                                                              |       |                                    |
| ii liblangtag1:amd64                              | 0.5.7-2ubuntu1                                               | amd64 | library to access tags             |
| for identifying languages                         |                                                              |       |                                    |
| ii liblapack-dev                                  | 3.6.0-2ubuntu2                                               |       |                                    |
| amd64                                             | Library of linear algebra routines 3 - static version        |       |                                    |
| ii liblapack3                                     | 3.6.0-2ubuntu2                                               | amd64 | Library of linear algebra          |
| routines 3 - shared version                       |                                                              |       |                                    |
| ii liblcms2-2:amd64                               | 2.6-3ubuntu2                                                 | amd64 | Little CMS 2 color                 |
| management library                                |                                                              |       |                                    |
| ii liblcms2-2:i386                                | 2.6-3ubuntu2                                                 | i386  | Little CMS 2 color                 |
| management library                                |                                                              |       |                                    |
| ii liblcms2-utils                                 | 2.6-3ubuntu2                                                 | amd64 | Little CMS 2 color                 |
| management library (utilities)                    |                                                              |       |                                    |
| ii libldap-2.4-2:amd64                            | 2.4.42+dfsg-2ubuntu3.1                                       | amd64 | OpenLDAP                           |
| libraries                                         |                                                              |       |                                    |
| ii libldb1:amd64                                  | 2:1.1.24-1ubuntu3                                            |       |                                    |
| amd64                                             | LDAP-like embedded database - shared library                 |       |                                    |
| ii liblightdm-gobject-1-0:amd64                   | 1.18.3-0ubuntu1                                              | amd64 | LightDM                            |
| GObject client library                            |                                                              |       |                                    |
| ii liblircclient0:amd64                           | 0.9.0-0ubuntu6                                               | amd64 | infra-red remote                   |
| control support - client library                  |                                                              |       |                                    |
| ii liblist-moreutils-perl                         | 0.413-1build1                                                | amd64 | Perl module with                   |
| additional list functions not found in List::Util |                                                              |       |                                    |
| ii liblldb-3.8                                    | 1:3.8-2ubuntu4                                               | amd64 | Next generation, high-             |
| performance debugger, library                     |                                                              |       |                                    |
| ii libllvm3.8:amd64                               | 1:3.8-2ubuntu4                                               | amd64 | Modular compiler                   |
| and toolchain technologies, runtime library       |                                                              |       |                                    |
| ii libllvm3.8:i386                                | 1:3.8-2ubuntu4                                               |       |                                    |
| i386                                              | Modular compiler and toolchain technologies, runtime library |       |                                    |
| ii liblocale-gettext-perl                         | 1.07-1build1                                                 | amd64 | module using libc                  |
| functions for internationalization in Perl        |                                                              |       |                                    |
| ii liblog4j1.2-java                               | 1.2.17-7ubuntu1                                              | all   | Logging library for java           |
| ii liblouis-data                                  | 2.6.4-2                                                      | all   | Braille translation library - data |
| ii liblouis9:amd64                                | 2.6.4-2                                                      | amd64 | Braille translation library        |
| - shared libs                                     |                                                              |       |                                    |
| ii liblouisutdml-bin                              | 2.5.0-3                                                      | amd64 | Braille UTDML                      |
| translation utilities                             |                                                              |       |                                    |
| ii liblouisutdml-data                             | 2.5.0-3                                                      |       |                                    |
| all                                               | Braille UTDML translation library - data                     |       |                                    |
| ii liblouisutdml6:amd64                           | 2.5.0-3                                                      | amd64 | Braille UTDML                      |
| translation library - shared libs                 |                                                              |       |                                    |
| ii liblqr-1-0:amd64                               | 0.4.2-2                                                      | amd64 | converts plain array               |
| images into multi-size representation             |                                                              |       |                                    |
| ii liblsan0:amd64                                 | 5.4.0-6ubuntu1~16.04.4                                       | amd64 | LeakSanitizer -- a                 |
| memory leak detector (runtime)                    |                                                              |       |                                    |
| ii libltdl7:amd64                                 | 2.4.6-0.1                                                    | amd64 | System independent                 |
| dlopen wrapper for GNU libtool                    |                                                              |       |                                    |
| ii liblua5.1-0:amd64                              | 5.1.5-8ubuntu1                                               | amd64 | Shared library for the             |

|                                                 |                                    |       |                                                       |  |
|-------------------------------------------------|------------------------------------|-------|-------------------------------------------------------|--|
| Lua interpreter version 5.1                     |                                    |       |                                                       |  |
| ii liblua5.2-0:amd64                            | 5.2.4-1ubuntu1                     | amd64 | Shared library for the Lua interpreter version        |  |
| 5.2                                             |                                    |       |                                                       |  |
| ii libluajit-5.1-2:amd64                        | 2.0.4+dfsg-1                       | amd64 | Just in time compiler                                 |  |
| for Lua - library version                       |                                    |       |                                                       |  |
| ii libluajit-5.1-common                         | 2.0.4+dfsg-1                       | all   | Just in time compiler for                             |  |
| Lua - common files                              |                                    |       |                                                       |  |
| ii liblwp-mediatypes-perl                       | 6.02-1                             | all   | module to guess media                                 |  |
| type for a file or a URL                        |                                    |       |                                                       |  |
| ii liblwp-protocol-https-perl                   | 6.06-2                             | all   | HTTPS driver for                                      |  |
| LWP::UserAgent                                  |                                    |       |                                                       |  |
| ii liblwres141:amd64                            | 1:9.10.3.dfsg.P4-8ubuntu1.4        | amd64 | Lightweight                                           |  |
| Resolver Library used by BIND                   |                                    |       |                                                       |  |
| ii liblz4-1:amd64                               | 0.0~r131-2ubuntu2                  | amd64 | Fast LZ compression algorithm library -               |  |
| runtime                                         |                                    |       |                                                       |  |
| ii liblzma-dev:amd64                            | 5.1.1alpha+20120614-2ubuntu2       | amd64 | XZ-format                                             |  |
| compression library - development files         |                                    |       |                                                       |  |
| ii liblzma5:amd64                               | 5.1.1alpha+20120614-2ubuntu2       | amd64 | XZ-format                                             |  |
| compression library                             |                                    |       |                                                       |  |
| ii liblzma5:i386                                | 5.1.1alpha+20120614-2ubuntu2       | i386  | XZ-format                                             |  |
| compression library                             |                                    |       |                                                       |  |
| ii liblzo2-2:amd64                              | 2.08-1.2                           | amd64 | data compression library                              |  |
| ii libmad0:amd64                                | 0.15.1b-8ubuntu1                   | amd64 | MPEG audio                                            |  |
| decoder library                                 |                                    |       |                                                       |  |
| ii libmagic1:amd64                              | 1:5.25-2ubuntu1                    | amd64 | File type determination library using "magic" numbers |  |
| ii libmagiccore-6.q16-2:amd64                   | 8:6.8.9.9-7ubuntu5.3               | amd64 | low-level                                             |  |
| image manipulation library -- quantum depth Q16 |                                    |       |                                                       |  |
| ii libmagiccore-6.q16-2-extra:amd64             | 8:6.8.9.9-7ubuntu5.3               | amd64 | low-level                                             |  |
| image manipulation library - extra codecs (Q16) |                                    |       |                                                       |  |
| ii libmagicwand-6.q16-2:amd64                   | 8:6.8.9.9-7ubuntu5.3               | amd64 | image                                                 |  |
| manipulation library                            |                                    |       |                                                       |  |
| ii libmail-sendmail-perl                        | 0.79.16-1                          | all   | Send email from a perl                                |  |
| script                                          |                                    |       |                                                       |  |
| ii libmailtools-perl                            | 2.13-1                             | all   | Manipulate email in perl                              |  |
| programs                                        |                                    |       |                                                       |  |
| ii libmaven-parent-java                         | 21-2                               | all   | Maven metadata for Apache Maven itself                |  |
| Maven metadata for Apache Maven itself          |                                    |       |                                                       |  |
| ii libmaven2-core-java                          | 2.2.1-24                           | all   | Core libraries for Maven2                             |  |
| ii libmaven3-core-java                          | 3.3.9-3                            | all   | Core libraries for Maven 3                            |  |
| ii libmbim-glib4:amd64                          | 1.12.2-2ubuntu1                    | amd64 | Support library to                                    |  |
| use the MBIM protocol                           |                                    |       |                                                       |  |
| ii libmbim-proxy                                | 1.12.2-2ubuntu1                    | amd64 | Proxy to                                              |  |
| communicate with MBIM ports                     |                                    |       |                                                       |  |
| ii libmedia1                                    | 0.1.0+git20151016+6d424c9-0ubuntu7 | amd64 | Library to                                            |  |
| provide access to the Android Media HAL         |                                    |       |                                                       |  |

|                                                            |                                         |       |                        |
|------------------------------------------------------------|-----------------------------------------|-------|------------------------|
| ii libmediaart-2.0-0:amd64                                 | 1.9.0-2                                 | amd64 |                        |
| media art extraction and cache management library          |                                         |       |                        |
| ii libmessaging-menu0:amd64                                | 13.10.1+15.10.20150505-0ubuntu1         | amd64 |                        |
| Messaging Menu - shared library                            |                                         |       |                        |
| ii libmetacity-private3a:amd64                             | 1:3.18.7-0ubuntu0.2                     | amd64 | library for the        |
| Metacity window manager                                    |                                         |       |                        |
| ii libmhash2:amd64                                         | 0.9.9.9-7                               | amd64 | Library for            |
| cryptographic hashing and message authentication           |                                         |       |                        |
| ii libmimic0:amd64                                         | 1.0.4-2.3                               | amd64 | A video codec for      |
| Mimic V2.x content                                         |                                         |       |                        |
| ii libminiupnpc10:amd64                                    | 1.9.20140610-2ubuntu2                   | amd64 | UPnP IGD               |
| client lightweight library                                 |                                         |       |                        |
| ii libmirclient9:amd64                                     | 0.21.0+16.04.20160330-0ubuntu1          | amd64 | Display                |
| server for Ubuntu - client library                         |                                         |       |                        |
| ii libmircommon5:amd64                                     | 0.21.0+16.04.20160330-0ubuntu1          | amd64 | Display                |
| server for Ubuntu - shared library                         |                                         |       |                        |
| ii libmirprotobuf3:amd64                                   | 0.21.0+16.04.20160330-0ubuntu1          | amd64 | Display                |
| server for Ubuntu - RPC definitions                        |                                         |       |                        |
| ii libmjpegutils-2.1-0                                     | 1:2.1.0+debian-4                        | amd64 | MJPEG                  |
| capture/editing/replay and MPEG encoding toolset (library) |                                         |       |                        |
| ii libmm-glib0:amd64                                       | 1.4.12-1ubuntu1                         | amd64 | D-Bus service for      |
| managing modems - shared libraries                         |                                         |       |                        |
| ii libmms0:amd64                                           | 0.6.4-1                                 | amd64 | MMS stream protocol    |
| library - shared library                                   |                                         |       |                        |
| ii libmng2:amd64                                           | 2.0.2-0ubuntu3                          |       |                        |
| amd64                                                      | Multiple-image Network Graphics library |       |                        |
| ii libmng2:i386                                            | 2.0.2-0ubuntu3                          | i386  | Multiple-image Network |
| Graphics library                                           |                                         |       |                        |
| ii libmnl0:amd64                                           | 1.0.3-5                                 | amd64 | minimalistic Netlink   |
| communication library                                      |                                         |       |                        |
| ii libmodplug1:amd64                                       | 1:0.8.8.5-2                             | amd64 | shared libraries for   |
| mod music based on ModPlug                                 |                                         |       |                        |
| ii libmono-2.0-dev                                         | 4.2.1.102+dfsg2-7ubuntu4                | amd64 | Mono JIT library       |
| - Development files (Default version)                      |                                         |       |                        |
| ii libmono-accessibility4.0-cil                            | 4.2.1.102+dfsg2-7ubuntu4                | all   | Mono                   |
| Accessibility library (for CLI 4.0)                        |                                         |       |                        |
| ii libmono-c5-1.1-cil                                      | 4.2.1.102+dfsg2-7ubuntu4                |       |                        |
| all                                                        | Mono C5 library                         |       |                        |
| ii libmono-cairo4.0-cil                                    | 4.2.1.102+dfsg2-7ubuntu4                | all   | Mono Cairo library     |
| (for CLI 4.0)                                              |                                         |       |                        |
| ii libmono-cecil-private-cil                               | 4.2.1.102+dfsg2-7ubuntu4                | all   | Mono.Cecil             |
| library                                                    |                                         |       |                        |
| ii libmono-cil-dev                                         | 4.2.1.102+dfsg2-7ubuntu4                | all   | Mono Base Class        |
| Libraries (BCL) - Development files                        |                                         |       |                        |
| ii libmono-codecontracts4.0-cil                            | 4.2.1.102+dfsg2-7ubuntu4                | all   |                        |
| Mono.CodeContracts library (for CLI 4.0)                   |                                         |       |                        |
| ii libmono-compilerservices-symbolwriter4.0-cil            | 4.2.1.102+dfsg2-7ubuntu4                | all   |                        |
| Mono.CompilerServices.SymbolWriter library (for CLI 4.0)   |                                         |       |                        |

|                                                                                                           |                          |                                 |                   |
|-----------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|-------------------|
| ii libmono-corlib4.5-cil<br>(for CLI 4.5)                                                                 | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono core library |
| ii libmono-cscompmgd0.0-cil<br>cscompmgd library (for CLI 4.0)                                            | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-csharp4.0c-cil<br>library (for CLI 4.0)                                                        | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono.CSharp       |
| ii libmono-custommarshallers4.0-cil<br>CustomMarshallers library (for CLI 4.0)                            | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-data-tds4.0-cil<br>Library (for CLI 4.0)                                                       | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono Data         |
| ii libmono-db2-1.0-cil                                                                                    | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono DB2 library  |
| ii libmono-debugger-soft4.0a-cil<br>Debugger library (for CLI 4.0)                                        | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono Soft         |
| ii libmono-http4.0-cil<br>4.2.1.102+dfsg2-7ubuntu4                                                        | all                      | Mono.Http library (for CLI 4.0) |                   |
| ii libmono-i18n-cjk4.0-cil<br>library (for CLI 4.0)                                                       | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono I18N.CJK     |
| ii libmono-i18n-mideast4.0-cil<br>I18N.MidEast library (for CLI 4.0)                                      | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-i18n-other4.0-cil<br>I18N.Other library (for CLI 4.0)                                          | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-i18n-rare4.0-cil<br>library (for CLI 4.0)                                                      | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono I18N.Rare    |
| ii libmono-i18n-west4.0-cil<br>I18N.West library (for CLI 4.0)                                            | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-i18n4.0-all<br>all Mono I18N libraries metapackage (for CLI 4.0)                               | 4.2.1.102+dfsg2-7ubuntu4 |                                 |                   |
| ii libmono-i18n4.0-cil<br>library (for CLI 4.0)                                                           | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono I18N base    |
| ii libmono-ldap4.0-cil<br>library (for CLI 4.0)                                                           | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono LDAP         |
| ii libmono-management4.0-cil<br>Management library (for CLI 4.0)                                          | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-messaging-rabbitmq4.0-cil<br>Messaging RabbitMQ library (for CLI 4.0)                          | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-messaging4.0-cil<br>Messaging library (for CLI 4.0)                                            | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-microsoft-build-engine4.0-cil<br>all Mono Microsoft.Build.Engine library (for CLI 4.0)         | 4.2.1.102+dfsg2-7ubuntu4 |                                 |                   |
| ii libmono-microsoft-build-framework4.0-cil<br>Microsoft.Build.Framework library (for CLI 4.0)            | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-microsoft-build-tasks-v4.0-4.0-cil<br>Microsoft.Build.Tasks.v4.0 library (for CLI 4.0)         | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-microsoft-build-utilities-v4.0-4.0-cil<br>Microsoft.Build.Utilities.v4.0 library (for CLI 4.0) | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-microsoft-build4.0-cil<br>Microsoft.Build library (for CLI 4.0)                                | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |
| ii libmono-microsoft-csharp4.0-cil                                                                        | 4.2.1.102+dfsg2-7ubuntu4 | all                             | Mono              |

|                                                                  |                                                              |                          |     |                |
|------------------------------------------------------------------|--------------------------------------------------------------|--------------------------|-----|----------------|
| Microsoft.CSharp library (for CLI 4.0)                           |                                                              |                          |     |                |
| ii                                                               | libmono-microsoft-visualc10.0-cil                            | 4.2.1.102+dfsg2-7ubuntu4 |     |                |
|                                                                  | all Mono Microsoft.VisualBasic library (for CLI 4.0)         |                          |     |                |
| ii                                                               | libmono-microsoft-web-infrastructure1.0-cil                  | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| Microsoft.Web.Infrastructure library (for CLI 4.0)               |                                                              |                          |     |                |
| ii                                                               | libmono-oracle4.0-cil                                        | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono Oracle    |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-parallel4.0-cil                                      | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono.Parallel  |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-peapi4.0a-cil                                        | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono PEAPI     |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-posix4.0-cil                                         | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono.Posix     |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-rabbitmq4.0-cil                                      | 4.2.1.102+dfsg2-7ubuntu4 |     |                |
|                                                                  | all Mono RabbitMQ.Client library (for CLI 4.0)               |                          |     |                |
| ii                                                               | libmono-relaxng4.0-cil                                       | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono Relaxng   |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-security4.0-cil                                      | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono Security  |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-sharpzip4.84-cil                                     | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| SharpZipLib library (for CLI 4.0)                                |                                                              |                          |     |                |
| ii                                                               | libmono-simd4.0-cil                                          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono SIMD (for |
| CLI 4.0)                                                         |                                                              |                          |     |                |
| ii                                                               | libmono-smdiagnosics0.0-cil                                  | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| SMDiagnostics Library (for CLI 4.0)                              |                                                              |                          |     |                |
| ii                                                               | libmono-sqlite4.0-cil                                        | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono Sqlite    |
| library (for CLI 4.0)                                            |                                                              |                          |     |                |
| ii                                                               | libmono-system-componentmodel-composition4.0-cil             | 4.2.1.102+dfsg2-7ubuntu4 |     | all            |
| Mono System.ComponentModel.Composition library (for CLI 4.0)     |                                                              |                          |     |                |
| ii                                                               | libmono-system-componentmodel-dataannotations4.0-cil         | 4.2.1.102+dfsg2-7ubuntu4 |     | all            |
| Mono System.ComponentModel.DataAnnotations library (for CLI 4.0) |                                                              |                          |     |                |
| ii                                                               | libmono-system-configuration-install4.0-cil                  | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Configuration.Install library (for CLI 4.0)               |                                                              |                          |     |                |
| ii                                                               | libmono-system-configuration4.0-cil                          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Configuration library (for CLI 4.0)                       |                                                              |                          |     |                |
| ii                                                               | libmono-system-core4.0-cil                                   | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Core library (for CLI 4.0)                                |                                                              |                          |     |                |
| ii                                                               | libmono-system-data-datasetextensions4.0-cil                 | 4.2.1.102+dfsg2-7ubuntu4 |     |                |
|                                                                  | all Mono System.Data.DataSetExtensions library (for CLI 4.0) |                          |     |                |
| ii                                                               | libmono-system-data-entity4.0-cil                            | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Data.Entity library (for CLI 4.0)                         |                                                              |                          |     |                |
| ii                                                               | libmono-system-data-linq4.0-cil                              | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Data.Linq Library (for CLI 4.0)                           |                                                              |                          |     |                |
| ii                                                               | libmono-system-data-services-client4.0-cil                   | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Data.Services.Client library (for CLI 4.0)                |                                                              |                          |     |                |
| ii                                                               | libmono-system-data-services4.0-cil                          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |
| System.Data.Services library (for CLI 4.0)                       |                                                              |                          |     |                |
| ii                                                               | libmono-system-data4.0-cil                                   | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono           |

|                                                          |                                                 |                          |                                                     |      |
|----------------------------------------------------------|-------------------------------------------------|--------------------------|-----------------------------------------------------|------|
| System.Data library (for CLI 4.0)                        |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-design4.0-cil                    | 4.2.1.102+dfsg2-7ubuntu4 |                                                     |      |
|                                                          | all                                             |                          | Mono System.Design Library (for CLI 4.0)            |      |
| ii                                                       | libmono-system-drawing-design4.0-cil            | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Drawing.Design (for CLI 4.0)                      |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-drawing4.0-cil                   | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Drawing library (for CLI 4.0)                     |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-dynamic4.0-cil                   | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Dynamic library (for CLI 4.0)                     |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-enterpriseservices4.0-cil        | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.EnterpriseServices library (for CLI 4.0)          |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-identitymodel-selectors4.0-cil   | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.IdentityModel.Selectors Library (for CLI 4.0)     |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-identitymodel4.0-cil             | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
|                                                          |                                                 |                          | Mono System.IdentityModel Library (for CLI 4.0)     |      |
| ii                                                       | libmono-system-io-compression-filesystem4.0-cil | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.IO.Compression.FileSystem library (for CLI 4.0)   |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-io-compression4.0-cil            | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.IO.Compression library (for CLI 4.0)              |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-json-microsoft4.0-cil            | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Json.Microsoft library (for CLI 4.0)              |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-json4.0-cil                      | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Json library (for CLI 4.0)                        |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-ldap-protocols4.0-cil            | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.DirectoryServices.Protocols library (for CLI 4.0) |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-ldap4.0-cil                      | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
|                                                          |                                                 |                          | Mono System.DirectoryServices library (for CLI 4.0) |      |
| ii                                                       | libmono-system-management4.0-cil                | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Management library (for CLI 4.0)                  |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-messaging4.0-cil                 | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Messaging library (for CLI 4.0)                   |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-net-http-formatting4.0-cil       | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Net.Http.Formatting library (for CLI 4.0)         |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-net-http-webrequest4.0-cil       | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Net.Http.WebRequest library (for CLI 4.0)         |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-net-http4.0-cil                  | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Net.Http library (for CLI 4.0)                    |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-net4.0-cil                       | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Net library (for CLI 4.0)                         |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-numeric4.0-cil                   | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Numerics library (for CLI 4.0)                    |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-reactive-core2.2-cil             | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Reactive.Core Library (for CLI 4.5)               |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-reactive-debugger2.2-cil         | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |
| System.Reactive.Debugger Library (for CLI 4.5)           |                                                 |                          |                                                     |      |
| ii                                                       | libmono-system-reactive-experimental2.2-cil     | 4.2.1.102+dfsg2-7ubuntu4 | all                                                 | Mono |

|                                                                         |                                                             |                          |     |      |
|-------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------|-----|------|
| System.Reactive.Experimental Library (for CLI 4.5)                      |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-interfaces2.2-cil                   | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Interfaces Library (for CLI 4.5)                        |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-linq2.2-cil                         | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Linq Library (for CLI 4.5)                              |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-observable-aliases0.0-cil           | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Linq Library (for CLI 4.5)                              |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-platformservices2.2-cil             | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.PlatformServices Library (for CLI 4.5)                  |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-providers2.2-cil                    | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Providers Library (for CLI 4.5)                         |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-runtime-remoting2.2-cil             | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Runtime.Remoting Library (for CLI 4.5)                  |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-windows-forms2.2-cil                | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Windows.Forms Library (for CLI 4.5)                     |                                                             |                          |     |      |
| ii                                                                      | libmono-system-reactive-windows-threading2.2-cil            | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Reactive.Windows.Threading Library (for CLI 4.5)                 |                                                             |                          |     |      |
| ii                                                                      | libmono-system-runtime-caching4.0-cil                       | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Runtime.Caching Library (for CLI 4.0)                            |                                                             |                          |     |      |
| ii                                                                      | libmono-system-runtime-durableinstancing4.0-cil             | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Runtime.DurableInstancing Library (for CLI 4.0)                  |                                                             |                          |     |      |
| ii                                                                      | libmono-system-runtime-serialization-formatters-soap4.0-cil | 4.2.1.102+dfsg2-7ubuntu4 | all |      |
| Mono System.Runtime.Serialization.Formatters.Soap Library (for CLI 4.0) |                                                             |                          |     |      |
| ii                                                                      | libmono-system-runtime-serialization4.0-cil                 | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Runtime.Serialization Library (for CLI 4.0)                      |                                                             |                          |     |      |
| ii                                                                      | libmono-system-runtime4.0-cil                               | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Runtime library (for CLI 4.0)                                    |                                                             |                          |     |      |
| ii                                                                      | libmono-system-security4.0-cil                              | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Security library (for CLI 4.0)                                   |                                                             |                          |     |      |
| ii                                                                      | libmono-system-servicemodel-activation4.0-cil               | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceModel.Activation Library (for CLI 4.0)                    |                                                             |                          |     |      |
| ii                                                                      | libmono-system-servicemodel-discovery4.0-cil                | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceModel.Discovery Library (for CLI 4.0)                     |                                                             |                          |     |      |
| ii                                                                      | libmono-system-servicemodel-internals0.0-cil                | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceModel.Internals Library (for CLI 4.0)                     |                                                             |                          |     |      |
| ii                                                                      | libmono-system-servicemodel-routing4.0-cil                  | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceModel.Routing Library (for CLI 4.0)                       |                                                             |                          |     |      |
| ii                                                                      | libmono-system-servicemodel-web4.0-cil                      | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceModel.Web Library (for CLI 4.0)                           |                                                             |                          |     |      |
| ii                                                                      | libmono-system-servicemodel4.0a-cil                         | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceModel Library (for CLI 4.0)                               |                                                             |                          |     |      |
| ii                                                                      | libmono-system-serviceprocess4.0-cil                        | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.ServiceProcess library (for CLI 4.0)                             |                                                             |                          |     |      |
| ii                                                                      | libmono-system-threading-tasks-dataflow4.0-cil              | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Threading.Tasks.Dataflow library (for CLI 4.0)                   |                                                             |                          |     |      |
| ii                                                                      | libmono-system-transactions4.0-cil                          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono |
| System.Transactions library (for CLI 4.0)                               |                                                             |                          |     |      |

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|-----------------------------------------------------------|--------------------------|-----|-------------------------------------------------------------------|
| ii libmono-system-web-abstractions4.0-cil                 | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Abstractions library (for CLI 4.0)                |
| ii libmono-system-web-applicationservices4.0-cil          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.ApplicationServices library (for CLI 4.0)         |
| ii libmono-system-web-dynamicdata4.0-cil                  | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.DynamicData library (for CLI 4.0)                 |
| ii libmono-system-web-extensions-design4.0-cil            | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Extensions.Design library (for CLI 4.0)           |
| ii libmono-system-web-extensions4.0-cil                   | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Extensions library (for CLI 4.0)                  |
| ii libmono-system-web-http-selfhost4.0-cil                | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Http.SelfHost library (for CLI 4.0)               |
| ii libmono-system-web-http-webhost4.0-cil                 | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Http.WebHost library (for CLI 4.0)                |
| ii libmono-system-web-http4.0-cil                         | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Http library (for CLI 4.0)                        |
| ii libmono-system-web-mvc3.0-cil                          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono ASP.NET MVC 3.0 Library (for CLI 4.0)                        |
| ii libmono-system-web-razor2.0-cil                        | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Razor (for CLI 4.0)                               |
| ii libmono-system-web-routing4.0-cil                      | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Routing (for CLI 4.0)                             |
| ii libmono-system-web-services4.0-cil                     | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.Services (for CLI 4.0)                            |
| ii libmono-system-web-webpages-deployment2.0-cil          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.WebPages.Deployment (for CLI 4.0)                 |
| ii libmono-system-web-webpages-razor2.0-cil               | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.WebPages.Razor (for CLI 4.0)                      |
| ii libmono-system-web-webpages2.0-cil                     | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web.WebPages (for CLI 4.0)                            |
| ii libmono-system-web4.0-cil                              | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Web library (for CLI 4.0)                             |
| ii libmono-system-windows-forms-datavisualization4.0a-cil | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Windows.Forms.DataVisualization Library (for CLI 4.0) |
| ii libmono-system-windows-forms4.0-cil                    | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Windows.Forms Library (for CLI 4.0)                   |
| ii libmono-system-windows4.0-cil                          | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Windows library (for CLI 4.0)                         |
| ii libmono-system-xaml4.0-cil                             | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Xaml Library (for CLI 4.0)                            |
| ii libmono-system-xml-linq4.0-cil                         | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Xml.Linq library (for CLI 4.0)                        |
| ii libmono-system-xml-serialization4.0-cil                | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Xml.Serialization library (for CLI 4.0)               |
| ii libmono-system-xml4.0-cil                              | 4.2.1.102+dfsg2-7ubuntu4 | all | Mono System.Xml library (for CLI 4.0)                             |

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|----------------------------------------------------------------------------------|--------------------------|-------|------------------------------------------------|
| ii libmono-system4.0-cil<br>libraries (for CLI 4.0)                              | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono System                                    |
| ii libmono-tasklets4.0-cil<br>library (for CLI 4.0)                              | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono Tasklets                                  |
| ii libmono-webbrowser4.0-cil<br>Browser library (for CLI 4.0)                    | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono Web                                       |
| ii libmono-webmatrix-data4.0-cil<br>WebMatrix.Data Library (for CLI 4.0)         | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono                                           |
| ii libmono-windowsbase4.0-cil<br>WindowsBase library (for CLI 4.0)               | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono                                           |
| ii libmono-xbuild-tasks4.0-cil<br>Mono.XBuild.Tasks library (for CLI 4.0)        | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono                                           |
| ii libmonoboehm-2.0-1<br>library (Boehm GC)                                      | 4.2.1.102+dfsg2-7ubuntu4 | amd64 | Mono JIT                                       |
| ii libmonoboehm-2.0-dev<br>(Boehm GC)                                            | 4.2.1.102+dfsg2-7ubuntu4 | amd64 | Mono JIT library - Development files           |
| ii libmount1:amd64<br>library                                                    | 2.27.1-6ubuntu3.2        | amd64 | device mounting                                |
| ii libmp3lame0:amd64<br>library                                                  | 3.99.5+repack1-9build1   | amd64 | MP3 encoding                                   |
| ii libmpc3:amd64<br>complex floating-point library                               | 1.0.3-1                  | amd64 | multiple precision                             |
| ii libmpdec2:amd64<br>floating point arithmetic (runtime library)                | 2.4.2-1                  | amd64 | library for decimal                            |
| ii libmpeg2-4:amd64<br>video decoder library                                     | 0.5.1-7                  | amd64 | MPEG1 and MPEG2                                |
| ii libmpeg2encpp-2.1-0<br>1:2.1.0+debian-4<br>toolset (library)                  | amd64                    | amd64 | MJPEG capture/editing/replay and MPEG encoding |
| ii libmpfr4:amd64<br>floating-point computation                                  | 3.1.4-1                  | amd64 | multiple precision                             |
| ii libmpeg123-0:amd64<br>audio decoder (shared library)                          | 1.22.4-1                 | amd64 | MPEG layer 1/2/3                               |
| ii libmplex2-2.1-0<br>capture/editing/replay and MPEG encoding toolset (library) | 1:2.1.0+debian-4         | amd64 | MJPEG                                          |
| ii libmpx0:amd64<br>protection extensions (runtime)                              | 5.4.0-6ubuntu1~16.04.4   | amd64 | Intel memory                                   |
| ii libmispub-0.1-1:amd64<br>the mispub file structure                            | 0.1.2-2ubuntu1           | amd64 | library for parsing                            |
| ii libmtdev1:amd64<br>Translation Library - shared library                       | 1.1.5-1ubuntu2           | amd64 | Multitouch Protocol                            |
| ii libmtp-common<br>Protocol (MTP) common files                                  | 1.1.10-2ubuntu1          | all   | Media Transfer                                 |
| ii libmtp-runtime<br>Protocol (MTP) runtime tools                                | 1.1.10-2ubuntu1          | amd64 | Media Transfer                                 |

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|-----------------------------------------------------------------------------------|-----------------------------|-------|---------------------------------|
| ii libmtp9:amd64<br>Protocol (MTP) library                                        | 1.1.10-2ubuntu1             | amd64 | Media Transfer                  |
| ii libmwaw-0.3-3:amd64<br>some old Mac text documents                             | 0.3.7-1ubuntu2              | amd64 | import library for              |
| ii libmysqlclient20:i386<br>client library                                        | 5.7.17-0ubuntu0.16.04.1     | i386  | MySQL database                  |
| ii<br>libmythes-1.2-0:amd64<br>library                                            | 2:1.2.4-1ubuntu3            | amd64 | simple thesaurus                |
| ii libnatpmp1:amd64<br>compliant implementation of NAT-PMP                        | 20110808-4                  | amd64 | portable and fully              |
| ii libnautilus-extension1a:amd64<br>nautilus components - runtime version         | 1:3.18.4.is.3.14.3-0ubuntu5 | amd64 | libraries for                   |
| ii libnb-org-openide-util-java<br>NetBeans Platform                               | 8.1+dfsg1-2                 | all   | Utility classes from the        |
| ii libnb-org-openide-util-lookup-java<br>classes from the NetBeans Platform       | 8.1+dfsg1-2                 | all   | Utility lookup                  |
| ii libncurses5:amd64<br>for terminal handling                                     | 6.0+20160213-1ubuntu1       | amd64 | shared libraries                |
| ii<br>libncurses5:i386<br>terminal handling                                       | 6.0+20160213-1ubuntu1       | i386  | shared libraries for            |
| ii libncurses5-dev:amd64<br>libraries for ncurses                                 | 6.0+20160213-1ubuntu1       | amd64 | developer's                     |
| ii libncursesw5:amd64<br>libraries for terminal handling (wide character support) | 6.0+20160213-1ubuntu1       | amd64 | shared                          |
| ii libncursesw5:i386<br>for terminal handling (wide character support)            | 6.0+20160213-1ubuntu1       | i386  | shared libraries                |
| ii libndp0:amd64<br>Neighbor Discovery Protocol                                   | 1.4-2ubuntu0.16.04.1        | amd64 | Library for                     |
| ii libneon27-gnutls:amd64<br>WebDAV client<br>library (GnuTLS enabled)            | 0.30.1-3build1              | amd64 | HTTP and                        |
| ii libnet-dbus-perl<br>DBus bindings                                              | 1.1.0-3build1               | amd64 | Perl extension for the          |
| ii libnet-dns-perl<br>from a Perl script                                          | 0.81-2build1                | amd64 | Perform DNS queries             |
| ii libnet-domain-tld-perl<br>Top-level Domains (TLDs)                             | 1.73-1                      | all   | list of currently available     |
| ii libnet-http-perl<br>HTTP connection client                                     | 6.09-1                      | all   | module providing low-level      |
| ii libnet-ip-perl<br>IPv4/IPv6 addresses                                          | 1.26-1                      | all   | Perl extension for manipulating |
| ii libnet-libidn-perl<br>bindings for GNU Libidn                                  | 0.12.ds-2build2             | amd64 | Perl                            |
| ii libnet-smtp-ssl-perl<br>support to Net::SMTP                                   | 1.03-1                      | all   | Perl module providing SSL       |
| ii libnet-ssleay-perl                                                             | 1.72-1build1                | amd64 | Perl module for Secure          |

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|----------------------------------|---------------------------|-------|-----------------------------------------------------------------------------------------------------------|
| Sockets Layer (SSL)              |                           |       |                                                                                                           |
| ii libnetfilter-conntrack3:amd64 | 1.0.5-1                   | amd64 | Netfilter netlink-conntrack library                                                                       |
| ii libnetpbm10                   | 2:10.0-15.3               | amd64 | Graphics conversion tools shared libraries                                                                |
| ii libnettle6:amd64              | 3.2-1ubuntu0.16.04.1      | amd64 | low level cryptographic library (symmetric and one-way cryptos)                                           |
| ii libnettle6:i386               | 3.2-1ubuntu0.16.04.1      | i386  | low level cryptographic library (symmetric and one-way cryptos)                                           |
| ii libnewt0.52:amd64             | 0.52.18-1ubuntu2          | amd64 | Not Erik's Windowing Toolkit - text mode windowing with slang                                             |
| ii libnfnetwork0:amd64           | 1.0.1-3                   | amd64 | Netfilter netlink library                                                                                 |
| ii libnih-dbus1:amd64            | 1.0.3-4.3ubuntu1          | amd64 | NIH D-Bus Bindings Library                                                                                |
| ii libnih1:amd64                 | 1.0.3-4.3ubuntu1          | amd64 | NIH Utility Library                                                                                       |
| ii libnl-3-200:amd64             | 3.2.27-1                  | amd64 | library for dealing with netlink sockets                                                                  |
| ii libnl-genl-3-200:amd64        | 3.2.27-1                  | amd64 | library for dealing with netlink sockets - generic netlink management framework (GLib VPN shared library) |
| ii libnm-glib-vpn1:amd64         | 1.2.2-0ubuntu0.16.04.3    | amd64 | network management framework (GLib VPN shared library)                                                    |
| ii libnm-glib4:amd64             | 1.2.2-0ubuntu0.16.04.3    | amd64 | network management framework (GLib shared library)                                                        |
| ii libnm-gtk-common              | 1.2.0-0ubuntu0.16.04.4    | all   | library for wireless and mobile dialogs - common files                                                    |
| ii libnm-gtk0:amd64              | 1.2.0-0ubuntu0.16.04.4    | amd64 | library for wireless and mobile dialogs (libnm-glib version)                                              |
| ii libnm-util2:amd64             | 1.2.2-0ubuntu0.16.04.3    | amd64 | network management framework (shared library)                                                             |
| ii libnm0:amd64                  | 1.2.2-0ubuntu0.16.04.3    | amd64 | GObject-based client library for NetworkManager                                                           |
| ii libnma-common                 | 1.2.0-0ubuntu0.16.04.4    | all   | library for wireless and mobile dialogs - common files                                                    |
| ii libnma0:amd64                 | 1.2.0-0ubuntu0.16.04.4    | amd64 | library for wireless and mobile dialogs (libnm version)                                                   |
| ii libnotify-bin                 | 0.7.6-2svn1               | amd64 | sends desktop notifications to a notification daemon (Utilities)                                          |
| ii libnotify4:amd64              | 0.7.6-2svn1               | amd64 | sends desktop notifications to a notification daemon                                                      |
| ii libnpth0:amd64                | 1.2-3                     | amd64 | replacement for GNU Pth using system threads                                                              |
| ii libnspr4:amd64                | 2:4.12-0ubuntu0.16.04.1   | amd64 | NetScape Portable Runtime Library                                                                         |
| ii libnss-mdns:amd64             | 0.10-7                    | amd64 | NSS module for Multicast DNS name resolution                                                              |
| ii libnss3:amd64                 | 2:3.26.2-0ubuntu0.16.04.2 | amd64 | Network Security Service libraries                                                                        |

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| ii libnss3-1d:amd64         | 2:3.26.2-0ubuntu0.16.04.2     | amd64        | Network Security Service libraries - transitional package            |                                          |
| ii libnss3-nssdb            | 2:3.26.2-0ubuntu0.16.04.2     | all          | Network Security Service libraries - shared databases                |                                          |
| ii libnuma1:amd64           | 2.0.11-1ubuntu1               | amd64        | Libraries for controlling NUMA policy                                |                                          |
| ii libnunit-cil-dev         | 2.6.4+dfsg-1                  | all          | Unit test framework for CLI - Development files                      |                                          |
| ii libnunit-console-runner  | 2.6.3-cil                     | 2.6.4+dfsg-1 | all                                                                  | Unit test framework for CLI - Assemblies |
| ii libnunit-core-interfaces | 2.6.3-cil                     | 2.6.4+dfsg-1 | all                                                                  | Unit test framework for CLI - Assemblies |
| ii libnunit-core            | 2.6.3-cil                     | 2.6.4+dfsg-1 | all                                                                  | Unit test framework for CLI - Assemblies |
| ii libnunit-framework       | 2.6.3-cil                     | 2.6.4+dfsg-1 | all                                                                  | Unit test framework for CLI - Assemblies |
| ii libnunit-mocks           | 2.6.3-cil                     | 2.6.4+dfsg-1 | all                                                                  | Unit test framework for CLI - Assemblies |
| ii libnunit-util            | 2.6.3-cil                     | 2.6.4+dfsg-1 | all                                                                  | Unit test framework for CLI - Assemblies |
| ii libnux-4.0-0             | 4.0.8+16.04.20160705-0ubuntu1 | amd64        | Visual rendering toolkit for real-time applications - shared lib     |                                          |
| ii libnux-4.0-common        | 4.0.8+16.04.20160705-0ubuntu1 | all          | Visual rendering toolkit for real-time applications - common files   |                                          |
| ii liboauth0:amd64          | 1.0.3-0ubuntu2                | amd64        | C library for implementing OAuth 1.0                                 |                                          |
| ii libobjc-5-dev:amd64      | 5.4.0-6ubuntu1~16.04.4        | amd64        | Runtime library for GNU Objective-C applications (development files) |                                          |
| ii libobjc4:amd64           | 5.4.0-6ubuntu1~16.04.4        | amd64        | Runtime library for GNU Objective-C applications                     |                                          |
| ii libobjenesis-java        | 2.2-1                         | all          | Java library to instantiate a new object of a particular class       |                                          |
| ii libodfgen-0.1-1          | 0.1.6-1ubuntu2                | amd64        | library to generate ODF documents                                    |                                          |
| ii libofa0:amd64            | 0.9.3-10ubuntu1               | amd64        | library for acoustic fingerprinting                                  |                                          |
| ii libogg0:amd64            | 1.3.2-1                       | amd64        | Ogg bitstream library                                                |                                          |
| ii libogg0:i386             | 1.3.2-1                       | i386         | Ogg bitstream library                                                |                                          |
| ii libopenal-data           | 1:1.16.0-3                    | all          | Software implementation of the OpenAL audio API (data files)         |                                          |
| ii libopenal1:amd64         | 1:1.16.0-3                    | amd64        | Software implementation of the OpenAL audio API (shared library)     |                                          |
| ii libopencore-amrnb0:amd64 | 0.1.3-2.1                     | amd64        | Adaptive Multi-Rate speech codec - shared library                    |                                          |
| ii libopencore-amrwb0:amd64 | 0.1.3-2.1                     | amd64        | Adaptive Multi-Rate - Wideband speech codec - shared library         |                                          |

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| ii libopencv-calib3d-dev:amd64<br>development files for libopencv-calib3d                           | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                   |
| ii libopencv-calib3d2.4v5:amd64<br>vision Camera Calibration library                                | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-contrib-dev:amd64<br>development files for libopencv-contrib                           | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                   |
| ii libopencv-contrib2.4v5:amd64<br>vision contrib library                                           | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-core-dev:amd64<br>files for libopencv-core                                             | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development       |
| ii libopencv-core2.4v5:amd64<br>vision core library                                                 | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-dev<br>for opencv                                                                      | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development files |
| ii libopencv-features2d-dev:amd64<br>development files for libopencv-features2d                     | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                   |
| ii libopencv-features2d2.4v5:amd64<br>vision Feature Detection and Descriptor<br>Extraction library | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-flann-dev:amd64<br>files for libopencv-flann                                           | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development       |
| ii libopencv-flann2.4v5:amd64<br>vision Clustering and Search in Multi-Dimensional spaces library   | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-gpu-dev:amd64<br>files for libopencv-gpu2.4v5                                          | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development       |
| ii libopencv-gpu2.4v5:amd64<br>vision GPU library                                                   | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-highgui-dev:amd64<br>development files for libopencv-highgui                           | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                   |
| ii libopencv-highgui2.4v5:amd64<br>vision<br>High-level GUI and Media I/O library                   | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-imgproc-dev:amd64<br>development files for libopencv-imgproc                           | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                   |
| ii libopencv-imgproc2.4v5:amd64<br>vision Image Processing library                                  | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-legacy-dev:amd64<br>files for libopencv-legacy                                         | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development       |
| ii libopencv-legacy2.4v5:amd64<br>vision legacy library                                             | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-ml-dev:amd64<br>files for libopencv-ml                                                 | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development       |
| ii libopencv-ml2.4v5:amd64<br>vision Machine Learning library                                       | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |
| ii libopencv-objdetect-dev:amd64<br>files for libopencv-objdetect                                   | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development       |
| ii libopencv-objdetect2.4v5:amd64                                                                   | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer          |

|                                                |                         |       |                                       |  |
|------------------------------------------------|-------------------------|-------|---------------------------------------|--|
| vision Object Detection library                |                         |       |                                       |  |
| ii libopencv-ocl-dev:amd64                     | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development                           |  |
| files for libopencv-ocl2.4v5                   |                         |       |                                       |  |
| ii libopencv-ocl2.4v5:amd64                    | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision OpenCL support library                  |                         |       |                                       |  |
| ii libopencv-photo-dev:amd64                   | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development                           |  |
| files for libopencv-photo2.4v5                 |                         |       |                                       |  |
| ii libopencv-photo2.4v5:amd64                  | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision computational photography library       |                         |       |                                       |  |
| ii                                             |                         |       |                                       |  |
| libopencv-stitching-dev:amd64                  | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development                           |  |
| files for libopencv-stitching2.4v5             |                         |       |                                       |  |
| ii libopencv-stitching2.4v5:amd64              | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision image stitching library                 |                         |       |                                       |  |
| ii libopencv-superres-dev:amd64                | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                                       |  |
| development files for libopencv-superres2.4v5  |                         |       |                                       |  |
| ii libopencv-superres2.4v5:amd64               | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision Super Resolution library                |                         |       |                                       |  |
| ii libopencv-ts-dev:amd64                      | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development                           |  |
| files for libopencv-ts2.4v5                    |                         |       |                                       |  |
| ii libopencv-ts2.4v5:amd64                     | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision ts library                              |                         |       |                                       |  |
| ii libopencv-video-dev:amd64                   |                         |       |                                       |  |
|                                                | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | development files for libopencv-video |  |
| ii libopencv-video2.4v5:amd64                  | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision Video analysis library                  |                         |       |                                       |  |
| ii libopencv-videostab-dev:amd64               | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 |                                       |  |
| development files for libopencv-videostab2.4v5 |                         |       |                                       |  |
| ii libopencv-videostab2.4v5:amd64              | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | computer                              |  |
| vision video stabilization library             |                         |       |                                       |  |
| ii libopencv2.4-java                           | 2.4.9.1+dfsg-1.5ubuntu1 | all   | Java bindings for the                 |  |
| computer vision library                        |                         |       |                                       |  |
| ii libopencv2.4-jni                            | 2.4.9.1+dfsg-1.5ubuntu1 | amd64 | Java jni library for                  |  |
| the computer vision library                    |                         |       |                                       |  |
| ii libopenxr-dev                               |                         |       |                                       |  |
|                                                | 2.2.0-10ubuntu2         | amd64 | development files for the OpenEXR     |  |
| image library                                  |                         |       |                                       |  |
| ii libopenxr22:amd64                           | 2.2.0-10ubuntu2         | amd64 | runtime files for                     |  |
| the OpenEXR image library                      |                         |       |                                       |  |
| ii libopenjpeg5:amd64                          | 1:1.5.2-3.1             | amd64 | JPEG 2000 image                       |  |
| compression/decompression library - runtime    |                         |       |                                       |  |
| ii libopus0:amd64                              | 1.1.2-1ubuntu1          | amd64 | Opus codec runtime                    |  |
| library                                        |                         |       |                                       |  |
| ii libopus0:i386                               | 1.1.2-1ubuntu1          | i386  | Opus codec runtime                    |  |
| library                                        |                         |       |                                       |  |
| ii liborc-0.4-0:amd64                          | 1:0.4.25-1              | amd64 | Library of Optimized                  |  |
| Inner Loops Runtime Compiler                   |                         |       |                                       |  |
| ii liborc-0.4-0:i386                           |                         |       |                                       |  |

|          |                                |                                 |                                          |                                                                          |
|----------|--------------------------------|---------------------------------|------------------------------------------|--------------------------------------------------------------------------|
|          | 1:0.4.25-1                     | i386                            | Library of Optimized Inner Loops Runtime |                                                                          |
| Compiler |                                |                                 |                                          |                                                                          |
| ii       | liborcus-0.10-0v5:amd64        | 0.9.2-4ubuntu2                  | amd64                                    | library for processing spreadsheet documents                             |
| ii       | libosmesa6:amd64               | 11.2.0-1ubuntu2.2               | amd64                                    | Mesa Off-screen rendering extension                                      |
| ii       | liboxideqt-qmlplugin:amd64     | 1.20.4-0ubuntu0.16.04.1         | amd64                                    | Web browser engine for Qt (QML plugin)                                   |
| ii       | liboxideqtcore0:amd64          | 1.20.4-0ubuntu0.16.04.1         | amd64                                    | Web browser engine for Qt (core library and components)                  |
| ii       | liboxideqtquick0:amd64         | 1.20.4-0ubuntu0.16.04.1         | amd64                                    | Web browser engine for Qt (QtQuick library)                              |
| ii       | libp11-kit-gnome-keyring:amd64 | 3.18.3-0ubuntu2                 | amd64                                    | GNOME keyring module for the PKCS#11 module loading library              |
| ii       | libp11-kit0:amd64              | 0.23.2-5~ubuntu16.04.1          | amd64                                    | library for loading and coordinating access to PKCS#11 modules - runtime |
| ii       | libp11-kit0:i386               | 0.23.2-5~ubuntu16.04.1          | i386                                     | library for loading and coordinating access to PKCS#11 modules - runtime |
| ii       | libpackagekit-glib2-16:amd64   | 0.8.17-4ubuntu6~gcc5.4ubuntu1.1 | amd64                                    | Library for accessing PackageKit using GLib                              |
| ii       | libpagemaker-0.0-0:amd64       | 0.0.3-1ubuntu1                  | amd64                                    | Library for importing and converting PageMaker Documents                 |
| ii       | libpam-gnome-keyring:amd64     | 3.18.3-0ubuntu2                 | amd64                                    | PAM module to unlock the GNOME keyring upon login                        |
| ii       | libpam-modules:amd64           | 1.1.8-3.2ubuntu2                | amd64                                    | Pluggable Authentication Modules for PAM                                 |
| ii       | libpam-modules-bin             | 1.1.8-3.2ubuntu2                | amd64                                    | Pluggable Authentication Modules for PAM - helper binaries               |
| ii       | libpam-runtime                 | 1.1.8-3.2ubuntu2                | all                                      | Runtime support for the PAM library                                      |
| ii       | libpam-systemd:amd64           | 229-4ubuntu16                   | amd64                                    | system and service manager - PAM module                                  |
| ii       | libpam0g:amd64                 | 1.1.8-3.2ubuntu2                | amd64                                    | Pluggable Authentication Modules library                                 |
| ii       | libpango-1.0-0:amd64           | 1.38.1-1                        | amd64                                    | Layout and rendering of internationalized text                           |
| ii       | libpango-1.0-0:i386            | 1.38.1-1                        | i386                                     | Layout and rendering of internationalized text                           |
| ii       | libpango1.0-0:amd64            | 1.38.1-1                        | amd64                                    | Layout and rendering of internationalized text (transitional package)    |
| ii       | libpango1.0-dev                | 1.38.1-1                        | amd64                                    | Development files for the Pango                                          |
| ii       | libpangocairo-1.0-0:amd64      | 1.38.1-1                        | amd64                                    | Layout and rendering of internationalized text                           |
| ii       | libpangocairo-1.0-0:i386       | 1.38.1-1                        | i386                                     | Layout and rendering of internationalized text                           |
| ii       | libpangoft2-1.0-0:amd64        |                                 |                                          |                                                                          |

|                                  |       |                                                |       |                                                                     |
|----------------------------------|-------|------------------------------------------------|-------|---------------------------------------------------------------------|
| 1.38.1-1                         | amd64 | Layout and rendering of internationalized text |       |                                                                     |
| ii libpangoft2-1.0-0:i386        |       | 1.38.1-1                                       | i386  | Layout and rendering of internationalized text                      |
| ii libpangomm-1.4-1v5:amd64      |       | 2.38.1-1                                       | amd64 | C++ Wrapper for pango (shared libraries)                            |
| ii libpangox-1.0-0:amd64         |       | 0.0.2-5                                        | amd64 | pango library X backend                                             |
| ii libpangoxft-1.0-0:amd64       |       | 1.38.1-1                                       | amd64 | Layout and rendering of internationalized text                      |
| ii libpaper-utils                |       | 1.1.24+nmu4ubuntu1                             | amd64 | library for handling paper characteristics (utilities)              |
| ii libpaper1:amd64               |       | 1.1.24+nmu4ubuntu1                             |       |                                                                     |
|                                  | amd64 | library for handling paper characteristics     |       |                                                                     |
| ii libparse-debianchangelog-perl |       | 1.2.0-8                                        | all   | parse Debian changelogs and output them in other formats            |
| ii libparted2:amd64              |       | 3.2-15                                         | amd64 | disk partition manipulator - shared library                         |
| ii libpathplan4                  |       | 2.38.0-12ubuntu2.1                             | amd64 | rich set of graph drawing tools - pathplan library                  |
| ii libpcap0.8:amd64              |       | 1.7.4-2                                        | amd64 | system interface for user-level packet capture                      |
| ii libpci3:amd64                 |       | 1:3.3.1-1.1ubuntu1                             | amd64 | Linux PCI Utilities (shared library)                                |
| ii libpciaccess0:amd64           |       | 0.13.4-1                                       | amd64 | Generic PCI access library for X                                    |
| ii libpciaccess0:i386            |       | 0.13.4-1                                       | i386  | Generic PCI access library for X                                    |
| ii libpcre16-3:amd64             |       | 2:8.38-3.1                                     | amd64 | Perl 5 Compatible Regular Expression Library - 16 bit runtime files |
| ii libpcre3:amd64                |       | 2:8.38-3.1                                     | amd64 | Perl 5 Compatible Regular Expression Library - runtime files        |
| ii libpcre3:i386                 |       | 2:8.38-3.1                                     | i386  | Perl 5 Compatible Regular Expression Library - runtime files        |
| ii libpcre3-dev:amd64            |       | 2:8.38-3.1                                     | amd64 | Perl 5 Compatible Regular Expression Library - development files    |
| ii libpcre32-3:amd64             |       | 2:8.38-3.1                                     | amd64 | Perl 5 Compatible Regular Expression Library - 32 bit runtime files |
| ii libpcrecpp0v5:amd64           |       | 2:8.38-3.1                                     | amd64 | Perl 5 Compatible Regular Expression Library - C++ runtime files    |
| ii libpcsc-lite1:amd64           |       | 1.8.14-1ubuntu1.16.04.1                        | amd64 | Middleware to access a smart card using PC/SC (library)             |
| ii libpeas-1.0-0:amd64           |       | 1.16.0-1ubuntu2                                | amd64 | Application plugin library                                          |
| ii libpeas-1.0-0-python3loader   |       | 1.16.0-1ubuntu2                                | amd64 | Application plugin library                                          |
| ii libpeas-common                |       | 1.16.0-1ubuntu2                                | all   | Application                                                         |

|                                         |                        |       |                                                |
|-----------------------------------------|------------------------|-------|------------------------------------------------|
| plugin library (common files)           |                        |       |                                                |
| ii libperl5.22:amd64                    | 5.22.1-9               | amd64 | shared Perl library                            |
| ii libperlio-gzip-perl                  | 0.19-1build1           | amd64 | module providing a                             |
| PerlIO layer to gzip/gunzip             |                        |       |                                                |
| ii libpipeline1:amd64                   | 1.4.1-2                | amd64 | pipeline manipulation                          |
| library                                 |                        |       |                                                |
| ii libpixman-1-0:amd64                  | 0.33.6-1               | amd64 | pixel-manipulation                             |
| library for X and cairo                 |                        |       |                                                |
| ii libpixman-1-0:i386                   | 0.33.6-1               | i386  | pixel-manipulation library                     |
| for X and cairo                         |                        |       |                                                |
| ii libpixman-1-dev                      | 0.33.6-1               | amd64 | pixel-manipulation                             |
| library for X and cairo (development    |                        |       |                                                |
| files)                                  |                        |       |                                                |
| ii libplexus-ant-factory-java           | 1.0~alpha2.1-3         | all   | Plexus Ant Factory                             |
| ii libplexus-archiver-java              | 2.2-1                  | all   | Archiver plugin for the                        |
| Plexus compiler system                  |                        |       |                                                |
| ii libplexus-bsh-factory-java           | 1.0~alpha7-3.1         | all   | Plexus Beanshell                               |
| Factory                                 |                        |       |                                                |
| ii libplexus-cipher-java                | 1.7-1                  | all   | Plexus Cipher Component                        |
| used by Maven                           |                        |       |                                                |
| ii libplexus-classworlds-java           | 1.5.0-5                | all   | Class loading utilities for                    |
| the Plexus framework                    |                        |       |                                                |
| ii libplexus-classworlds2-java          | 2.5.2-1                | all   | Class loading utilities for                    |
| the Plexus framework                    |                        |       |                                                |
| ii libplexus-cli-java                   | 1.2-5                  | all   | Easily create CLIs with Plexus components      |
|                                         |                        |       |                                                |
| ii libplexus-component-annotations-java | 1.6-2                  | all   | Plexus Component                               |
| Annotations                             |                        |       |                                                |
| ii libplexus-component-metadata-java    | 1.6-2                  | all   | Component Metadata                             |
| Maven plugin for Plexus                 |                        |       |                                                |
| ii libplexus-container-default-java     | 1.0-alpha-9-stable-1-7 | all   | utilities for the                              |
| Plexus framework                        |                        |       |                                                |
| ii libplexus-container-default1.5-java  | 1.6-2                  | all   | Plexus Inversion-of-                           |
| control Container                       |                        |       |                                                |
| ii libplexus-containers-java            | 1.0~beta3.0.7-8        | all   | utilities for the Plexus                       |
| framework                               |                        |       |                                                |
| ii libplexus-containers1.5-java         | 1.6-2                  | all   | Plexus IoC Container core with companion tools |
|                                         |                        |       |                                                |
| ii libplexus-interactivity-api-java     | 1.0-alpha-6-7          | all   | interactivity API for                          |
| the Plexus framework                    |                        |       |                                                |
| ii libplexus-interpolation-java         | 1.21-1                 | all   | Plexus Interpolation API                       |
| ii libplexus-io-java                    | 1.0~alpha5-2           | all   | Plexus IO Components                           |
| ii libplexus-sec-dispatcher-java        | 1.3.1-6                | all   | Plexus Security                                |
| Dispatcher Component used by Maven      |                        |       |                                                |
| ii libplexus-utils-java                 | 1:1.5.15-4             | all   | utilities for the Plexus                       |
| framework                               |                        |       |                                                |
| ii libplexus-utils2-java                | 3.0.22-1               |       |                                                |

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|-----|---------------------------------------|---------------------------|-------|---------------------------------------------------------------------------|
| all | utilities for the Plexus framework    |                           |       |                                                                           |
| ii  | libplist3:amd64                       | 1.12-3.1                  | amd64 | Library for handling Apple binary and XML property lists                  |
| ii  | libplymouth4:amd64                    | 0.9.2-3ubuntu13.1         | amd64 | graphical boot animation and logger - shared libraries                    |
| ii  | libpng12-0:amd64                      | 1.2.54-1ubuntu1           | amd64 | PNG library - runtime                                                     |
| ii  | libpng12-0:i386                       | 1.2.54-1ubuntu1           | i386  | PNG library - runtime                                                     |
| ii  | libpng12-dev:amd64                    | 1.2.54-1ubuntu1           | amd64 | PNG library - development                                                 |
| ii  | libpolkit-agent-1-0:amd64             | 0.105-14.1                | amd64 | PolicyKit Authentication Agent API                                        |
| ii  | libpolkit-backend-1-0:amd64           | 0.105-14.1                | amd64 | PolicyKit backend API                                                     |
| ii  | libpolkit-gobject-1-0:amd64           | 0.105-14.1                | amd64 | PolicyKit Authorization API                                               |
| ii  | libpoppler-glib8:amd64                | 0.41.0-0ubuntu1.1         | amd64 | PDF rendering library (GLib-based shared library)                         |
| ii  | libpoppler-qt5-1:amd64                | 0.41.0-0ubuntu1.1         | amd64 | PDF rendering library (Qt 5 based shared library)                         |
| ii  | libpoppler58:amd64                    | 0.41.0-0ubuntu1.1         | amd64 | PDF rendering library                                                     |
| ii  | libpopt0:amd64                        | 1.16-10                   | amd64 | lib for parsing cmdline parameters                                        |
| ii  | libportaudio2:amd64                   | 19+svn20140130-1build1    | amd64 | Portable audio I/O - shared library                                       |
| ii  | libpostproc-ffmpeg53:amd64            | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg library for post processing - runtime files                        |
| ii  | libpotrace0                           | 1.13-2                    | amd64 | library for tracing bitmaps                                               |
| ii  | libpq5:amd64                          | 9.6.1-2.pgdg16.04+1       | amd64 | PostgreSQL C client library                                               |
| ii  | libprocps4:amd64                      | 2:3.3.10-4ubuntu2.3       | amd64 | library for accessing process information from /proc                      |
| ii  | libprotobuf-lite9v5:amd64             | 2.6.1-1.3                 | amd64 | protocol buffers C++ library (lite version)                               |
| ii  | libprotobuf9v5:amd64                  | 2.6.1-1.3                 | amd64 | protocol buffers C++ library                                              |
| ii  | libproxy1-plugin-gsettings:amd64      | 0.4.11-5ubuntu1           | amd64 | automatic proxy configuration management library (GSettings plugin)       |
| ii  | libproxy1-plugin-gsettings:i386       | 0.4.11-5ubuntu1           | i386  | automatic proxy configuration management library (GSettings plugin)       |
| ii  | libproxy1-plugin-networkmanager:amd64 | 0.4.11-5ubuntu1           | amd64 | automatic proxy configuration management library (Network Manager plugin) |
| ii  | libproxy1-plugin-webkit:i386          | 0.4.11-5ubuntu1           | i386  | automatic proxy configuration management library (WebKit plugin)          |
| ii  | libproxy1v5:amd64                     | 0.4.11-5ubuntu1           | amd64 | automatic proxy configuration                                             |

|                                                                                |                         |  |       |                             |
|--------------------------------------------------------------------------------|-------------------------|--|-------|-----------------------------|
| management library (shared)                                                    |                         |  |       |                             |
| ii libproxy1v5:i386                                                            | 0.4.11-5ubuntu1         |  | i386  | automatic proxy             |
| configuration management library (shared)                                      |                         |  |       |                             |
| ii libptexenc1:amd64                                                           | 2015.20160222.37495-1   |  | amd64 | TeX Live:                   |
| pTeX encoding library                                                          |                         |  |       |                             |
| ii libpthread-stubs0-dev:amd64                                                 | 0.3-4                   |  | amd64 | pthread stubs not           |
| provided by native libc, development files                                     |                         |  |       |                             |
| ii libpulse-mainloop-glib0:amd64                                               | 1:8.0-0ubuntu3.2        |  | amd64 | PulseAudio                  |
| client libraries (glib support)                                                |                         |  |       |                             |
| ii libpulse0:amd64                                                             | 1:8.0-0ubuntu3.2        |  | amd64 | PulseAudio client           |
| libraries                                                                      |                         |  |       |                             |
| ii libpulse0:i386                                                              | 1:8.0-0ubuntu3.2        |  | i386  | PulseAudio                  |
| client libraries                                                               |                         |  |       |                             |
| ii libpulsedsp:amd64                                                           | 1:8.0-0ubuntu3.2        |  | amd64 | PulseAudio OSS              |
| pre-load library                                                               |                         |  |       |                             |
| ii libpwquality-common                                                         | 1.3.0-0ubuntu1          |  | all   | library for password        |
| quality checking and generation (data files)                                   |                         |  |       |                             |
| ii libpwquality1:amd64                                                         | 1.3.0-0ubuntu1          |  | amd64 | library for                 |
| password quality checking and generation                                       |                         |  |       |                             |
| ii libpython-all-dev:amd64                                                     | 2.7.11-1                |  | amd64 | package depending on        |
| all supported Python development packages                                      |                         |  |       |                             |
| ii libpython-dev:amd64                                                         | 2.7.11-1                |  | amd64 | header files and a          |
| static library for Python (default)                                            |                         |  |       |                             |
| ii libpython-stdlib:amd64                                                      | 2.7.11-1                |  |       |                             |
| amd64 interactive high-level object-oriented language (default python version) |                         |  |       |                             |
| ii libpython2.7:amd64                                                          | 2.7.12-1ubuntu0~16.04.1 |  | amd64 | Shared Python               |
| runtime library (version 2.7)                                                  |                         |  |       |                             |
| ii libpython2.7-dev:amd64                                                      | 2.7.12-1ubuntu0~16.04.1 |  | amd64 | Header files                |
| and a static library for Python (v2.7)                                         |                         |  |       |                             |
| ii libpython2.7-minimal:amd64                                                  | 2.7.12-1ubuntu0~16.04.1 |  | amd64 | Minimal                     |
| subset of the Python language (version 2.7)                                    |                         |  |       |                             |
| ii libpython2.7-stdlib:amd64                                                   | 2.7.12-1ubuntu0~16.04.1 |  | amd64 | Interactive                 |
| high-level object-oriented language (standard library, version 2.7)            |                         |  |       |                             |
| ii libpython3-stdlib:amd64                                                     | 3.5.1-3                 |  | amd64 | interactive high-level      |
| object-oriented language (default                                              |                         |  |       |                             |
| python3 version)                                                               |                         |  |       |                             |
| ii libpython3.5:amd64                                                          | 3.5.2-2ubuntu0~16.04.1  |  | amd64 | Shared Python               |
| runtime library (version 3.5)                                                  |                         |  |       |                             |
| ii libpython3.5-minimal:amd64                                                  | 3.5.2-2ubuntu0~16.04.1  |  | amd64 | Minimal                     |
| subset of the Python language (version 3.5)                                    |                         |  |       |                             |
| ii libpython3.5-stdlib:amd64                                                   | 3.5.2-2ubuntu0~16.04.1  |  | amd64 | Interactive                 |
| high-level object-oriented language (standard library, version 3.5)            |                         |  |       |                             |
| ii libqdox2-java                                                               | 2.0~M3-2                |  | all   | quickly parses declarations |
| and Javadoc from Java source                                                   |                         |  |       |                             |
| ii libqmi-glib1:amd64                                                          | 1.12.6-1                |  | amd64 | Support library to use      |
| the Qualcomm MSM Interface (QMI) protocol                                      |                         |  |       |                             |
| ii libqmi-proxy                                                                |                         |  |       |                             |

|                             |       |                                     |       |                                                            |
|-----------------------------|-------|-------------------------------------|-------|------------------------------------------------------------|
| 1.12.6-1                    | amd64 | Proxy to communicate with QMI ports |       |                                                            |
| ii libqpdf17:amd64          |       | 6.0.0-2                             | amd64 | runtime library for PDF transformation/inspection software |
| ii libqqwing2v5:amd64       |       | 1.3.4-1                             | amd64 | tool for generating and solving Sudoku puzzles (library)   |
| ii libqt4-dbus:amd64        |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 D-Bus module                                          |
| ii libqt4-dbus:i386         |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 D-Bus module                                          |
| ii libqt4-declarative:amd64 |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 Declarative module                                    |
| ii libqt4-declarative:i386  |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 Declarative module                                    |
| ii libqt4-network:amd64     |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 network module                                        |
| ii libqt4-network:i386      |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 network module                                        |
| ii libqt4-opengl:i386       |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 OpenGL module                                         |
| ii libqt4-script:amd64      |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 script module                                         |
| ii libqt4-script:i386       |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 script module                                         |
| ii libqt4-sql:amd64         |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 SQL module                                            |
| ii libqt4-sql:i386          |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 SQL module                                            |
| ii libqt4-sql-mysql:i386    |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 MySQL database driver                                 |
| ii libqt4-sql-sqlite:amd64  |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 SQLite 3 database driver                              |
| ii libqt4-xml:amd64         |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 XML module                                            |
| ii libqt4-xml:i386          |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 XML module                                            |
| ii libqt4-xmlpatterns:amd64 |       | 4:4.8.7+dfsg-5ubuntu2               | amd64 | Qt 4 XML patterns module                                   |
| ii libqt4-xmlpatterns:i386  |       | 4:4.8.7+dfsg-5ubuntu2               | i386  | Qt 4 XML patterns module                                   |
| ii libqt5core5a:amd64       | amd64 | 5.5.1+dfsg-16ubuntu7.2              |       | Qt 5 core module                                           |
| ii libqt5dbus5:amd64        |       | 5.5.1+dfsg-16ubuntu7.2              | amd64 | Qt 5 D-Bus module                                          |
| ii libqt5feedback5:amd64    |       | 5.0~git20130529-0ubuntu13           | amd64 | Qt Feedback module                                         |
| ii libqt5gui5:amd64         |       | 5.5.1+dfsg-16ubuntu7.2              | amd64 | Qt 5 GUI module                                            |
| ii libqt5multimedia5:amd64  |       | 5.5.1-4ubuntu2                      | amd64 | Qt 5 Multimedia module                                     |
| ii libqt5network5:amd64     |       | 5.5.1+dfsg-16ubuntu7.2              | amd64 | Qt 5 network module                                        |
| ii libqt5opengl5:amd64      |       | 5.5.1+dfsg-16ubuntu7.2              | amd64 | Qt 5 OpenGL module                                         |

|    |                                                                                        |                                    |       |                              |
|----|----------------------------------------------------------------------------------------|------------------------------------|-------|------------------------------|
| ii | libqt5organizer5:amd64<br>amd64 Qt PIM module, Organizer library                       | 5.0~git20140515~29475884-0ubuntu20 |       |                              |
| ii | libqt5positioning5:amd64<br>module                                                     | 5.5.1-3ubuntu1                     | amd64 | Qt Positioning               |
| ii | libqt5printsupport5:amd64<br>support module                                            | 5.5.1+dfsg-16ubuntu7.2             | amd64 | Qt 5 print                   |
| ii | libqt5qml5:amd64                                                                       | 5.5.1-2ubuntu6                     | amd64 | Qt 5 QML module              |
| ii | libqt5quick5:amd64                                                                     | 5.5.1-2ubuntu6                     | amd64 | Qt 5 Quick library           |
| ii | libqt5quicktest5:amd64<br>library                                                      | 5.5.1-2ubuntu6                     | amd64 | Qt 5 Quick Test              |
| ii | libqt5script5:amd64                                                                    | 5.5.1+dfsg-2build1                 | amd64 | Qt 5 script module           |
| ii | libqt5sql5:amd64<br>amd64 Qt 5 SQL module                                              | 5.5.1+dfsg-16ubuntu7.2             |       |                              |
| ii | libqt5sql5-sqlite:amd64<br>database driver                                             | 5.5.1+dfsg-16ubuntu7.2             | amd64 | Qt 5 SQLite 3                |
| ii | libqt5svg5:amd64                                                                       | 5.5.1-2build1                      | amd64 | Qt 5 SVG module              |
| ii | libqt5test5:amd64                                                                      | 5.5.1+dfsg-16ubuntu7.2             | amd64 | Qt 5 test module             |
| ii | libqt5webkit5:amd64<br>engine library for Qt                                           | 5.5.1+dfsg-2ubuntu1                | amd64 | Web content                  |
| ii | libqt5widgets5:amd64<br>module                                                         | 5.5.1+dfsg-16ubuntu7.2             | amd64 | Qt 5 widgets                 |
| ii | libqt5x11extras5:amd64                                                                 | 5.5.1-3build1                      | amd64 | Qt 5 X11 extras              |
| ii | libqt5xml5:amd64<br>amd64 Qt 5 XML module                                              | 5.5.1+dfsg-16ubuntu7.2             |       |                              |
| ii | libqtcore4:amd64                                                                       | 4:4.8.7+dfsg-5ubuntu2              | amd64 | Qt 4 core module             |
| ii | libqtcore4:i386                                                                        | 4:4.8.7+dfsg-5ubuntu2              | i386  | Qt 4 core module             |
| ii | libqtdbus4:amd64<br>module library                                                     | 4:4.8.7+dfsg-5ubuntu2              | amd64 | Qt 4 D-Bus                   |
| ii | libqtdbus4:i386<br>library                                                             | 4:4.8.7+dfsg-5ubuntu2              | i386  | Qt 4 D-Bus module            |
| ii | libqtgui4:amd64                                                                        | 4:4.8.7+dfsg-5ubuntu2              | amd64 | Qt 4 GUI module              |
| ii | libqtgui4:i386                                                                         | 4:4.8.7+dfsg-5ubuntu2              | i386  | Qt 4 GUI module              |
| ii | libqtwebkit4:i386<br>i386 Web content engine library for Qt                            | 2.3.2-0ubuntu11                    |       |                              |
| ii | libquadmath0:amd64<br>Precision Math Library                                           | 5.4.0-6ubuntu1~16.04.4             | amd64 | GCC Quad-                    |
| ii | libquvi-scripts<br>download links (Lua scripts)                                        | 0.4.21-2                           | all   | library for parsing video    |
| ii | libquvi7:amd64<br>download links (runtime libraries)                                   | 0.4.1-3                            | amd64 | library for parsing video    |
| ii | libraptor2-0:amd64<br>library                                                          | 2.0.14-1                           | amd64 | Raptor 2 RDF syntax          |
| ii | librasqal3:amd64<br>library                                                            | 0.9.32-1                           | amd64 | Rasqal RDF query             |
| ii | libraw1394-11:amd64<br>amd64 library for direct access to IEEE 1394 bus (aka FireWire) | 2.1.1-2                            |       |                              |
| ii | libraw1394-11:i386<br>IEEE 1394 bus (aka FireWire)                                     | 2.1.1-2                            | i386  | library for direct access to |

|                                          |                  |       |                                                                    |
|------------------------------------------|------------------|-------|--------------------------------------------------------------------|
| ii libraw1394-dev:amd64                  | 2.1.1-2          | amd64 | library for direct access to IEEE 1394 bus - development files     |
| ii libraw1394-tools                      | 2.1.1-2          | amd64 | library for direct access to IEEE 1394 bus (aka FireWire)          |
| ii libraw15:amd64                        | 0.17.1-1         | amd64 | raw image decoder library                                          |
| ii librdf0:amd64                         | 1.0.17-1build1   | amd64 | Redland Resource Description Framework (RDF) library               |
| ii libreadline6:amd64                    | 6.3-8ubuntu2     | amd64 | GNU readline and history libraries, run-time libraries             |
| ii librecode0:amd64                      | 3.6-22           | amd64 | Shared library on which recode is based                            |
| ii libregexp-common-perl                 | 2016020301-1     | all   | module with common regular expressions                             |
| ii libreoffice-avmedia-backend-gstreamer | 1:5.1.4-0ubuntu1 | amd64 | GStreamer backend for LibreOffice                                  |
| ii libreoffice-base-core                 | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- shared library                        |
| ii libreoffice-calc                      | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- spreadsheet                           |
| ii libreoffice-common                    | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- arch-independent files                |
| ii libreoffice-core                      | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- arch-dependent files                  |
| ii libreoffice-draw                      | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- drawing                               |
| ii libreoffice-gnome                     | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- GNOME integration                     |
| ii libreoffice-gtk                       | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- GTK+ integration                      |
| ii libreoffice-help-en-gb                | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- English_british help                  |
| ii libreoffice-help-en-us                | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- English_american help                 |
| ii libreoffice-help-it                   | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- Italian help                          |
| ii libreoffice-impress                   | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- presentation                          |
| ii libreoffice-l10n-en-gb                | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- English_british language package      |
| ii libreoffice-l10n-en-za                | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- English_southafrican language package |
| ii libreoffice-l10n-it                   | 1:5.1.4-0ubuntu1 | all   | office productivity suite -- Italian language package              |
| ii libreoffice-math                      | 1:5.1.4-0ubuntu1 | amd64 | office productivity suite -- equation editor                       |
| ii libreoffice-ogltrans                  | 1:5.1.4-0ubuntu1 | amd64 | LibreOffice Impress                                                |

|                                                                              |                                 |       |                                 |
|------------------------------------------------------------------------------|---------------------------------|-------|---------------------------------|
| extension for slide transitions using OpenGL                                 |                                 |       |                                 |
| ii libreoffice-pdfimport<br>component for LibreOffice                        | 1:5.1.4-0ubuntu1                | amd64 | PDF Import                      |
| ii libreoffice-style-breeze<br>suite -- Breeze symbol style                  | 1:5.1.4-0ubuntu1                | all   | office productivity             |
| ii libreoffice-style-galaxy<br>suite -- Galaxy (Default) symbol style        | 1:5.1.4-0ubuntu1                | all   | office productivity             |
| ii libreoffice-writer<br>office productivity suite -- word processor         | 1:5.1.4-0ubuntu1                | amd64 |                                 |
| ii librest-0.7-0:amd64<br>library                                            | 0.7.93-1                        | amd64 | REST service access             |
| ii librevenge-0.0-0:amd64<br>writing document interface filters              | 0.0.4-4ubuntu1                  | amd64 | Base Library for                |
| ii librhino-java<br>Engine                                                   | 1.7R4-3                         | all   | Libraries for rhino Java Script |
| ii librhythmbox-core9:amd64<br>for the rhythmbox music player                | 3.3-1ubuntu7                    | amd64 | support library                 |
| ii libroken18-heimdal:amd64<br>Kerberos - roken support library              | 1.7~git20150920+dfsg-4ubuntu1   | amd64 | Heimdal                         |
| ii libsvg2-2:amd64<br>renderer library for SVG files (runtime)               | 2.40.13-3                       | amd64 | SAX-based                       |
| ii libsvg2-common:amd64<br>renderer library for SVG files (extra runtime)    | 2.40.13-3                       | amd64 | SAX-based                       |
| ii libsync1:amd64<br>algorithm library                                       | 0.9.7-10                        | amd64 | rsync remote-delta              |
| ii librtmp1:amd64<br>RTMP streams (shared library)                           | 2.4+20151223.gitfa8646d-1build1 | amd64 | toolkit for                     |
| ii libruby2.3:amd64<br>run Ruby 2.3                                          | 2.3.1-2~16.04                   | amd64 | Libraries necessary to          |
| ii libsamplerate0:amd64<br>conversion library                                | 0.1.8-8                         | amd64 | Audio sample rate               |
| ii libsamplerate0:i386<br>rate conversion library                            | 0.1.8-8                         | i386  | Audio sample                    |
| ii libsane:amd64<br>scanners                                                 | 1.0.26-git20160712-xenial0      | amd64 | API library for                 |
| ii libsane-common<br>scanners -- documentation and support files             | 1.0.26-git20160712-xenial0      | amd64 | API library for                 |
| ii libsane-hpaio:amd64<br>for multi-function peripherals                     | 3.16.3+repack0-1                | amd64 | HP SANE backend                 |
| ii libsasl2-2:amd64<br>authentication abstraction library                    | 2.1.26.dfsg1-14build1           | amd64 | Cyrus SASL -                    |
| ii libsasl2-modules:amd64<br>pluggable authentication modules                | 2.1.26.dfsg1-14build1           | amd64 | Cyrus SASL -                    |
| ii libsasl2-modules-db:amd64<br>SASL - pluggable authentication modules (DB) | 2.1.26.dfsg1-14build1           | amd64 | Cyrus                           |
| ii libsbcl1:amd64<br>- runtime                                               | 1.3-1                           | amd64 | Sub Band CODEC library          |
| ii libschrödinger-1.0-0:amd64<br>library for                                 | 1.0.11-2.1build1                | amd64 | library for                     |

|                                          |                                |         |       |                                                           |
|------------------------------------------|--------------------------------|---------|-------|-----------------------------------------------------------|
| encoding/decoding of Dirac video streams |                                |         |       |                                                           |
| ii libsd11.2debian:amd64                 | 1.2.15+dfsg1-3                 |         | amd64 | Simple                                                    |
| DirectMedia Layer                        |                                |         |       |                                                           |
| ii libseccomp2:amd64                     | 2.2.3-3ubuntu3                 |         | amd64 | high level interface                                      |
| to Linux seccomp filter                  |                                |         |       |                                                           |
| ii libsecret-1-0:amd64                   | 0.18.4-1ubuntu2                |         | amd64 | Secret store                                              |
| ii libsecret-1-0:i386                    | 0.18.4-1ubuntu2                |         | i386  | Secret store                                              |
| ii libsecret-common                      |                                |         |       |                                                           |
|                                          | 0.18.4-1ubuntu2                | all     |       | Secret store (common files)                               |
| ii libselinux1:amd64                     | 2.4-3build2                    |         | amd64 | SELinux runtime                                           |
| shared libraries                         |                                |         |       |                                                           |
| ii libselinux1:i386                      | 2.4-3build2                    |         | i386  | SELinux runtime shared                                    |
| libraries                                |                                |         |       |                                                           |
| ii libsemanage-common                    | 2.3-1build3                    |         | all   | Common files for                                          |
| SELinux policy management libraries      |                                |         |       |                                                           |
| ii libsemanage1:amd64                    | 2.3-1build3                    |         | amd64 | SELinux policy                                            |
| management library                       |                                |         |       |                                                           |
| ii libsensors4:amd64                     | 1:3.4.0-2                      |         | amd64 | library to read                                           |
| temperature/voltage/fan sensors          |                                |         |       |                                                           |
| ii libsepol1:amd64                       | 2.4-2                          |         |       |                                                           |
|                                          |                                | amd64   |       | SELinux library for manipulating binary security policies |
| ii libservlet2.5-java                    | 6.0.45+dfsg-1                  |         | all   | Servlet 2.5 and JSP 2.1                                   |
| Java API classes                         |                                |         |       |                                                           |
| ii libservlet3.1-java                    | 8.0.32-1ubuntu1.3              |         | all   | Servlet 3.1, JSP 2.3, EL                                  |
| 3.0 and WebSocket 1.0 Java API classes   |                                |         |       |                                                           |
| ii libsgutils2-2                         | 1.40-0ubuntu1                  |         | amd64 | utilities for devices using                               |
| the SCSI command set (shared libraries)  |                                |         |       |                                                           |
| ii libshine3:amd64                       | 3.1.0-4                        |         | amd64 | Fixed-point MP3                                           |
| encoding library - runtime files         |                                |         |       |                                                           |
| ii libshout3:amd64                       | 2.3.1-3                        |         | amd64 | MP3/Ogg Vorbis                                            |
| broadcast streaming library              |                                |         |       |                                                           |
| ii libshout3:i386                        |                                | 2.3.1-3 | i386  | MP3/Ogg Vorbis broadcast streaming library                |
|                                          |                                |         |       |                                                           |
| ii libsidplay1v5                         | 1.36.59-8                      |         | amd64 | SID (MOS 6581)                                            |
| emulation library                        |                                |         |       |                                                           |
| ii libsigc++-2.0-0v5:amd64               | 2.6.2-1                        |         | amd64 | type-safe Signal                                          |
| Framework for C++ - runtime              |                                |         |       |                                                           |
| ii libsignon-extension1:amd64            | 8.58+16.04.20151106-0ubuntu1   |         | amd64 | Single                                                    |
| Sign On framework                        |                                |         |       |                                                           |
| ii libsignon-glib1:amd64                 | 1.13+16.04.20151209.1-0ubuntu1 |         | amd64 | library for                                               |
| signond                                  |                                |         |       |                                                           |
| ii libsignon-plugins-common1:amd64       | 8.58+16.04.20151106-0ubuntu1   |         | amd64 |                                                           |
| Single Sign On framework                 |                                |         |       |                                                           |
| ii libsignon-qt5-1:amd64                 | 8.58+16.04.20151106-0ubuntu1   |         |       |                                                           |
|                                          |                                | amd64   |       | Single Sign On framework                                  |
| ii libsigsegv2:amd64                     | 2.10-4                         |         | amd64 | Library for handling                                      |
| page faults in a portable way            |                                |         |       |                                                           |
| ii libsisu-inject-java                   | 0.3.2-1                        |         | all   | Dependency Injection                                      |

|                                                     |                                |     |       |                                |
|-----------------------------------------------------|--------------------------------|-----|-------|--------------------------------|
| container for Java                                  |                                |     |       |                                |
| ii libsisu-plexus-java                              | 0.3.2-1                        | all |       | Plexus adapter for the Sisu    |
| dependency injection container                      |                                |     |       |                                |
| ii libslang2:amd64                                  | 2.3.0-2ubuntu1                 |     | amd64 | S-Lang programming             |
| library - runtime version                           |                                |     |       |                                |
| ii libslang2:i386                                   | 2.3.0-2ubuntu1                 |     | i386  | S-Lang programming             |
| library - runtime version                           |                                |     |       |                                |
| ii libslf4j-java                                    | 1.7.14-3                       |     |       |                                |
|                                                     | all                            |     |       | Simple Logging Facade for Java |
| ii libsm-dev:amd64                                  | 2:1.2.2-1                      |     | amd64 | X11 Session                    |
| Management library (development headers)            |                                |     |       |                                |
| ii libsm6:amd64                                     | 2:1.2.2-1                      |     | amd64 | X11 Session                    |
| Management library                                  |                                |     |       |                                |
| ii libsm6:i386                                      | 2:1.2.2-1                      |     | i386  | X11 Session Management         |
| library                                             |                                |     |       |                                |
| ii libsmartcols1:amd64                              | 2.27.1-6ubuntu3.2              |     | amd64 | smart column                   |
| output alignment library                            |                                |     |       |                                |
| ii libsmblclient:amd64                              | 2:4.3.11+dfsg-0ubuntu0.16.04.3 |     | amd64 | shared library                 |
| for communication with SMB/CIFS servers             |                                |     |       |                                |
| ii libsnapd-glib1:amd64                             | 1.2-0ubuntu1.1~xenial          |     |       |                                |
| amd64 GLib snapd library                            |                                |     |       |                                |
| ii libsnappy1v5:amd64                               | 1.1.3-2                        |     | amd64 | fast                           |
| compression/decompression library                   |                                |     |       |                                |
| ii libsndfile1:amd64                                | 1.0.25-10                      |     | amd64 | Library for                    |
| reading/writing audio files                         |                                |     |       |                                |
| ii libsndfile1:i386                                 | 1.0.25-10                      |     | i386  | Library for reading/writing    |
| audio files                                         |                                |     |       |                                |
| ii libsnmp-base                                     | 5.7.3+dfsg-1ubuntu4            |     | all   | SNMP configuration             |
| script, MIBs and documentation                      |                                |     |       |                                |
| ii libsnmp30:amd64                                  | 5.7.3+dfsg-1ubuntu4            |     | amd64 | SNMP (Simple                   |
| Network Management Protocol) library                |                                |     |       |                                |
| ii libsocket6-perl                                  | 0.25-1build2                   |     | amd64 |                                |
| Perl extensions for IPv6                            |                                |     |       |                                |
| ii libsodium18:amd64                                | 1.0.8-5                        |     | amd64 | Network                        |
| communication, cryptography and signaturing library |                                |     |       |                                |
| ii libsonic0:amd64                                  | 0.2.0-3                        |     | amd64 | Simple library to speed        |
| up or slow down speech                              |                                |     |       |                                |
| ii libsoundtouch1:amd64                             | 1.9.2-2                        |     | amd64 | Sound stretching               |
| library                                             |                                |     |       |                                |
| ii libsoup-gnome2.4-1:amd64                         | 2.52.2-1ubuntu0.1              |     | amd64 | HTTP library                   |
| implementation in C -- GNOME support library        |                                |     |       |                                |
| ii libsoup2.4-1:amd64                               | 2.52.2-1ubuntu0.1              |     | amd64 | HTTP library                   |
| implementation in C -- Shared library               |                                |     |       |                                |
| ii libsoup2.4-1:i386                                | 2.52.2-1ubuntu0.1              |     | i386  |                                |
| HTTP library implementation in C -- Shared library  |                                |     |       |                                |
| ii libsoxr0:amd64                                   | 0.1.2-1                        |     | amd64 | High quality 1D sample-        |
| rate conversion library                             |                                |     |       |                                |
| ii libspandsp2:amd64                                | 0.0.6-2.1                      |     | amd64 | Telephony signal               |

|                                                                    |                                |       |                                                      |  |
|--------------------------------------------------------------------|--------------------------------|-------|------------------------------------------------------|--|
| processing library                                                 |                                |       |                                                      |  |
| ii libspectre1:amd64                                               | 0.2.7-3ubuntu2                 | amd64 | Library for rendering                                |  |
| PostScript documents                                               |                                |       |                                                      |  |
| ii libspeechd2:amd64                                               | 0.8.3-1ubuntu3                 | amd64 | Speech Dispatcher:                                   |  |
| Shared libraries                                                   |                                |       |                                                      |  |
| ii libspeex1:amd64                                                 | 1.2~rc1.2-1ubuntu1             | amd64 | The Speex codec                                      |  |
| runtime library                                                    |                                |       |                                                      |  |
| ii libspeex1:i386                                                  | 1.2~rc1.2-1ubuntu1             | i386  | The Speex codec                                      |  |
| runtime library                                                    |                                |       |                                                      |  |
| ii libspeexdsp1:amd64                                              | 1.2~rc1.2-1ubuntu1             | amd64 | The Speex                                            |  |
| extended runtime library                                           |                                |       |                                                      |  |
| ii libspeexdsp1:i386                                               | 1.2~rc1.2-1ubuntu1             | i386  | The Speex extended                                   |  |
| runtime library                                                    |                                |       |                                                      |  |
| ii libsqlite3-0:amd64                                              | 3.11.0-1ubuntu1                | amd64 | SQLite 3 shared                                      |  |
| library                                                            |                                |       |                                                      |  |
| ii libsqlite3-0:i386                                               | 3.11.0-1ubuntu1                | i386  | SQLite 3 shared library                              |  |
| ii libsrtp0                                                        | 1.4.5~20130609~dfsg-1.1ubuntu1 | amd64 | Secure RTP                                           |  |
| (SRTP) and UST Reference Implementations - shared library          |                                |       |                                                      |  |
| ii libss2:amd64                                                    | 1.42.13-1ubuntu1               | amd64 | command-line                                         |  |
| interface parsing library                                          |                                |       |                                                      |  |
| ii libssh-4:amd64                                                  |                                |       |                                                      |  |
|                                                                    | 0.6.3-4.3                      | amd64 | tiny C SSH library (OpenSSL flavor)                  |  |
| ii libssh-gcrypt-4:amd64                                           | 0.6.3-4.3                      | amd64 | tiny C SSH library                                   |  |
| (gcrypt flavor)                                                    |                                |       |                                                      |  |
| ii libssl-dev:amd64                                                | 1.0.2g-1ubuntu4.6              | amd64 | Secure Sockets                                       |  |
| Layer toolkit - development files                                  |                                |       |                                                      |  |
| ii libssl-doc                                                      | 1.0.2g-1ubuntu4.6              | all   | Secure Sockets Layer                                 |  |
| toolkit - development documentation                                |                                |       |                                                      |  |
| ii libssl1.0.0:amd64                                               | 1.0.2g-1ubuntu4.6              | amd64 | Secure Sockets                                       |  |
| Layer toolkit - shared libraries                                   |                                |       |                                                      |  |
| ii libssl1.0.0:i386                                                | 1.0.2g-1ubuntu4.6              | i386  | Secure Sockets Layer                                 |  |
| toolkit - shared libraries                                         |                                |       |                                                      |  |
| ii libstartup-notification0:amd64                                  |                                |       |                                                      |  |
|                                                                    | 0.12-4build1                   | amd64 | library for program launch feedback (shared library) |  |
| ii libstdc++-4.9-dev:amd64                                         | 4.9.3-13ubuntu2                | amd64 | GNU Standard                                         |  |
| C++ Library v3 (development files)                                 |                                |       |                                                      |  |
| ii libstdc++-5-dev:amd64                                           | 5.4.0-6ubuntu1~16.04.4         | amd64 | GNU Standard                                         |  |
| C++ Library v3 (development files)                                 |                                |       |                                                      |  |
| ii libstdc++6:amd64                                                | 5.4.0-6ubuntu1~16.04.4         | amd64 | GNU Standard                                         |  |
| C++ Library v3                                                     |                                |       |                                                      |  |
| ii libstdc++6:i386                                                 | 5.4.0-6ubuntu1~16.04.4         | i386  | GNU Standard C++                                     |  |
| Library v3                                                         |                                |       |                                                      |  |
| ii libsub-name-perl                                                | 0.14-1build1                   | amd64 | module for assigning a                               |  |
| new name to referenced sub                                         |                                |       |                                                      |  |
| ii libsuitesparseconfig4.4.6:amd64                                 |                                |       |                                                      |  |
|                                                                    | 1:4.4.6-1                      | amd64 | configuration routines for all SuiteSparse modules   |  |
| ii libswresample-dev:amd64                                         | 7:2.8.10-0ubuntu0.16.04.1      | amd64 | FFmpeg                                               |  |
| library for audio resampling, rematrixing etc. - development files |                                |       |                                                      |  |

|                                                                       |                           |       |                                                |
|-----------------------------------------------------------------------|---------------------------|-------|------------------------------------------------|
| ii libswresample-ffmpeg1:amd64                                        | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg                                         |
| library for audio resampling, rematrixing etc. - runtime files        |                           |       |                                                |
| ii libswscale-dev:amd64                                               | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg                                         |
| library for image scaling and various conversions - development files |                           |       |                                                |
| ii libswscale-ffmpeg3:amd64                                           | 7:2.8.10-0ubuntu0.16.04.1 | amd64 | FFmpeg                                         |
| library for image scaling and various conversions - runtime files     |                           |       |                                                |
| ii libsyntax1:amd64                                                   | 2015.20160222.37495-1     | amd64 | TeX Live: SyncTeX parser library               |
| ii libsys-hostname-long-perl                                          | 1.5-1                     | all   | Figure out the long (fully-qualified) hostname |
| ii libsystemd0:amd64                                                  | 229-4ubuntu16             | amd64 | systemd utility                                |
| library                                                               |                           |       |                                                |
| ii libsystemd0:i386                                                   | 229-4ubuntu16             | i386  | systemd utility library                        |
| ii libtablelayout-java                                                | 20090826-2                | all   | Java layout manager for                        |
| creating user interfaces fast and easy                                |                           |       |                                                |
| ii libtag1v5:amd64                                                    | 1.9.1-2.4ubuntu1          | amd64 | audio meta-data                                |
| library                                                               |                           |       |                                                |
| ii libtag1v5:i386                                                     | 1.9.1-2.4ubuntu1          | i386  | audio meta-data library                        |
| i386 audio meta-data library                                          |                           |       |                                                |
| ii libtag1v5-vanilla:amd64                                            | 1.9.1-2.4ubuntu1          | amd64 | audio meta-data                                |
| library - vanilla flavour                                             |                           |       |                                                |
| ii libtag1v5-vanilla:i386                                             | 1.9.1-2.4ubuntu1          | i386  | audio meta-data                                |
| library - vanilla flavour                                             |                           |       |                                                |
| ii libtalloc2:amd64                                                   | 2.1.5-2                   | amd64 | hierarchical pool based                        |
| memory allocator                                                      |                           |       |                                                |
| ii libtasn1-6:amd64                                                   | 4.7-3ubuntu0.16.04.1      | amd64 | Manage ASN.1                                   |
| structures (runtime)                                                  |                           |       |                                                |
| ii libtasn1-6:i386                                                    | 4.7-3ubuntu0.16.04.1      | i386  | Manage ASN.1                                   |
| structures (runtime)                                                  |                           |       |                                                |
| ii libtbb2:amd64                                                      | 4.4~20151115-0ubuntu3     | amd64 | parallelism                                    |
| library for                                                           |                           |       |                                                |
| C++ - runtime files                                                   |                           |       |                                                |
| ii libtcl8.6:amd64                                                    | 8.6.5+dfsg-2              | amd64 | Tcl (the Tool Command                          |
| Language) v8.6 - run-time library files                               |                           |       |                                                |
| ii libtdb1:amd64                                                      | 1.3.8-2                   | amd64 | Trivial Database - shared                      |
| library                                                               |                           |       |                                                |
| ii libtelepathy-glib0:amd64                                           | 0.24.1-1.1                | amd64 | Telepathy framework                            |
| - GLib library                                                        |                           |       |                                                |
| ii libevent0:amd64                                                    | 0.9.28-0ubuntu0.16.04.1   | amd64 | talloc-based event                             |
| loop library - shared library                                         |                           |       |                                                |
| ii libtexlua52:amd64                                                  | 2015.20160222.37495-1     | amd64 | TeX Live: Lua                                  |
| 5.2, modified for use with LuaTeX                                     |                           |       |                                                |
| ii libtexluajit2:amd64                                                | 2015.20160222.37495-1     | amd64 | TeX Live:                                      |
| LuaJIT,                                                               |                           |       |                                                |
| modified for use with LuaJITTeX                                       |                           |       |                                                |
| ii libtext-charwidth-perl                                             | 0.04-7build5              | amd64 | get display widths of                          |
| characters on the terminal                                            |                           |       |                                                |
| ii libtext-iconv-perl                                                 | 1.7-5build4               | amd64 | converts between                               |

|                                                                                 |                       |       |       |                                       |
|---------------------------------------------------------------------------------|-----------------------|-------|-------|---------------------------------------|
| character sets in Perl                                                          |                       |       |       |                                       |
| ii libtext-levenshtein-perl<br>Levenshtein edit distance                        | 0.13-1                |       | all   | implementation of the                 |
| ii libtext-wrapi18n-perl<br>of Text::Wrap                                       | 0.06-7.1              |       | all   | internationalized substitute          |
| ii libthai-data<br>support library                                              | 0.1.24-2              |       | all   | Data files for Thai language          |
| ii libthai0:amd64<br>Thai language support library                              | 0.1.24-2              |       | amd64 |                                       |
| ii libthai0:i386                                                                | 0.1.24-2              |       | i386  | Thai language support library         |
| ii libtheora0:amd64<br>Compression Codec                                        | 1.1.1+dfsg.1-8        |       | amd64 | Theora Video                          |
| ii libtheora0:i386<br>Compression Codec                                         | 1.1.1+dfsg.1-8        |       | i386  | Theora Video                          |
| ii libtie-ixhash-perl<br>associative arrays                                     | 1.23-2                |       | all   | Perl module to order                  |
| ii libtiff5:amd64<br>(TIFF) library                                             | 4.0.6-1               |       | amd64 | Tag Image File Format                 |
| ii libtiff5:i386<br>library                                                     | 4.0.6-1               |       | i386  | Tag Image File Format (TIFF)          |
| ii libtiff5-dev:amd64<br>development files                                      | 4.0.6-1               | amd64 |       | Tag Image File Format library (TIFF), |
| ii libtiffxx5:amd64<br>(TIFF) library -- C++ interface                          | 4.0.6-1               |       | amd64 | Tag Image File Format                 |
| ii libtimedate-perl<br>manipulate date/time information                         | 2.3000-2              |       | all   | collection of modules to              |
| ii libtimezonemap-data<br>widget - data files                                   | 0.4.5                 |       | all   | GTK+3 timezone map                    |
| ii libtimezonemap1:amd64<br>widget                                              | 0.4.5                 |       | amd64 | GTK+3 timezone map                    |
| ii libtinfo-dev:amd64<br>library for the low-level terminfo library             | 6.0+20160213-1ubuntu1 |       | amd64 | developer's                           |
| ii libtinfo5:amd64<br>terminfo library for terminal handling                    | 6.0+20160213-1ubuntu1 |       | amd64 | shared low-level                      |
| ii libtinfo5:i386<br>terminfo library for terminal handling                     | 6.0+20160213-1ubuntu1 |       | i386  | shared low-level                      |
| ii libtk8.6:amd64<br>v8.6 - run-time files                                      | 8.6.5-1               |       | amd64 | Tk toolkit for Tcl and X11            |
| ii libtotem-plparser-common<br>Parser library - common files                    | 3.10.6-1ubuntu1       |       | all   | Totem Playlist                        |
| ii libtotem-plparser18:amd64<br>Parser library - runtime files                  | 3.10.6-1ubuntu1       |       | amd64 | Totem Playlist                        |
| ii libtotem0:amd64<br>for the Totem media player                                | 3.18.1-1ubuntu4       |       | amd64 | Main library                          |
| ii libtracker-sparql-1.0-0:amd64<br>database, indexer and search tool - library | 1.6.2-0ubuntu1.1      |       | amd64 | metadata                              |

|                                                                                        |                                      |       |                                                   |
|----------------------------------------------------------------------------------------|--------------------------------------|-------|---------------------------------------------------|
| ii libtsan0:amd64<br>a Valgrind-based detector of data races (runtime)                 | 5.4.0-6ubuntu1~16.04.4               | amd64 | ThreadSanitizer --                                |
| ii libtwolame0:amd64<br>encoding library                                               | 0.3.13-1.2                           | amd64 | MPEG Audio Layer 2                                |
| ii libtxc-dxtn-s2tc0:amd64<br>compression library for Mesa                             | 0~git20131104-1.1                    | amd64 | Texture                                           |
| ii libtxc-dxtn-s2tc0:i386<br>compression library for Mesa                              | 0~git20131104-1.1                    | i386  | Texture                                           |
| ii libubsan0:amd64<br>UBSan -- undefined behaviour sanitizer (runtime)                 | 5.4.0-6ubuntu1~16.04.4               | amd64 |                                                   |
| ii libubuntugestures5:amd64<br>gestures library for Ubuntu UI Toolkit                  | 1.3.1918+16.04.20160404-0ubuntu1     | amd64 | Ubuntu                                            |
| ii libubuntutoolkit5:amd64<br>toolkit common library for Ubuntu UI Toolkit             | 1.3.1918+16.04.20160404-0ubuntu1     | amd64 | Ubuntu                                            |
| ii libudev1:amd64<br>library                                                           | 229-4ubuntu16                        | amd64 | libudev shared                                    |
| ii libudev1:i386                                                                       | 229-4ubuntu16                        | i386  | libudev shared library                            |
| ii libudisks2-0:amd64<br>library to access udisks2                                     | 2.1.7-1ubuntu1                       | amd64 | GObject based                                     |
| ii libunistring0:amd64<br>library for<br>C                                             | 0.9.3-5.2ubuntu1                     | amd64 | Unicode string                                    |
| ii libunity-action-qt1:amd64<br>Action Qt API                                          | 1.1.0+14.04.20140304-0ubuntu2~gcc5.1 | amd64 | Unity                                             |
| ii libunity-control-center1<br>configure the GNOME desktop                             | 15.04.0+16.04.20160705-0ubuntu1      | amd64 | utilities to                                      |
| ii libunity-core-6.0-9:amd64<br>library for the Unity interface                        | 7.4.0+16.04.20160906-0ubuntu1        | amd64 | core                                              |
| ii libunity-gtk2-parser0:amd64<br>GtkMenuShell to GMenuModel parser                    | 0.0.0+15.04.20150118-0ubuntu2        | amd64 |                                                   |
| ii libunity-gtk3-parser0:amd64<br>GtkMenuShell to GMenuModel parser                    | 0.0.0+15.04.20150118-0ubuntu2        | amd64 |                                                   |
| ii libunity-misc4<br>functions for Unity - shared library                              | 4.0.5+14.04.20140115-0ubuntu1        | amd64 | Miscellaneous                                     |
| ii libunity-protocol-private0:amd64<br>library                                         | 7.1.4+16.04.20160701-0ubuntu1        | amd64 | binding to get places into the launcher - private |
| ii libunity-scopes-json-def-desktop<br>get places into the launcher - desktop def file | 7.1.4+16.04.20160701-0ubuntu1        | all   | binding to                                        |
| ii libunity-settings-daemon1:amd64<br>Helper library for accessing settings            | 15.04.1+16.04.20160701-0ubuntu1      | amd64 |                                                   |
| ii libunity-webapps0:amd64<br>Apps integration with the Unity desktop                  | 2.5.0~+16.04.20160201-0ubuntu1       | amd64 | Web                                               |
| ii libunity9:amd64<br>places into the launcher - shared library                        | 7.1.4+16.04.20160701-0ubuntu1        | amd64 | binding to get                                    |
| ii libunwind8<br>call-chain of a program                                               | 1.1-4.1                              | amd64 | library to determine the                          |

|                                                                               |                              |       |                                 |  |
|-------------------------------------------------------------------------------|------------------------------|-------|---------------------------------|--|
| - runtime                                                                     |                              |       |                                 |  |
| ii libupower-glib3:amd64<br>power management - shared library                 | 0.99.4-2ubuntu0.3            | amd64 | abstraction for                 |  |
| ii liburi-perl<br>URI strings                                                 | 1.71-1                       | all   | module to manipulate and access |  |
| ii liburl-dispatcher1:amd64<br>sending requests to the url dispatcher         | 0.1+16.04.20151110-0ubuntu2  | amd64 | library for                     |  |
| ii libusb-0.1-4:amd64<br>programming library                                  | 2:0.1.12-28                  | amd64 | userspace USB                   |  |
| ii libusb-1.0-0:amd64<br>programming library                                  | 2:1.0.20-1                   | amd64 | userspace USB                   |  |
| ii libusbmuxd4:amd64<br>daemon for iPhone and iPod<br>Touch devices - library | 1.0.10-2ubuntu0.1            | amd64 | USB multiplexor                 |  |
| ii libustr-1.0-1:amd64<br>shared library                                      | 1.0.4-5                      | amd64 | Micro string library:           |  |
| ii libutempter0:amd64<br>utmp/wtmp updates (runtime)                          | 1.1.6-3                      | amd64 | privileged helper for           |  |
| ii libuuid-perl<br>UUID interfaces as defined in e2fsprogs                    | 0.24-1build1                 | amd64 | Perl extension for using        |  |
| ii libuuid1:amd64<br>ID library                                               | 2.27.1-6ubuntu3.2            | amd64 | Universally Unique              |  |
| ii libuuid1:i386<br>library                                                   | 2.27.1-6ubuntu3.2            | i386  | Universally Unique ID           |  |
| ii libuv1:amd64<br>notification<br>library - runtime library                  | 1.8.0-1                      | amd64 | asynchronous event              |  |
| ii libuv1-dev:amd64<br>notification library - development files               | 1.8.0-1                      | amd64 | asynchronous event              |  |
| ii libv4l-0:amd64<br>support libraries                                        | 1.10.0-1                     | amd64 | Collection of video4linux       |  |
| ii libv4l-0:i386<br>support libraries                                         | 1.10.0-1                     | i386  | Collection of video4linux       |  |
| ii libv4lconvert0:amd64<br>format conversion library                          | 1.10.0-1                     | amd64 | Video4linux frame               |  |
| ii libv4lconvert0:i386<br>conversion library                                  | 1.10.0-1                     | i386  | Video4linux frame format        |  |
| ii libva1:amd64<br>Video Acceleration (VA) API for Linux -- runtime           | 1.7.0-1                      | amd64 |                                 |  |
| ii libvdpau1:amd64<br>Presentation API for Unix (libraries)                   | 1.1.1-3ubuntu1               | amd64 | Video Decode and                |  |
| ii libvisio-0.1-1:amd64<br>the visio file structure                           | 0.1.5-1ubuntu1               | amd64 | library for parsing             |  |
| ii libvisual-0.4-0:amd64<br>framework                                         | 0.4.0-8                      | amd64 | audio visualization             |  |
| ii libvisual-0.4-0:i386<br>framework                                          | 0.4.0-8                      | i386  | audio visualization             |  |
| ii libvncclient1:amd64                                                        | 0.9.10+dfsg-3ubuntu0.16.04.1 | amd64 | API to write                    |  |

|                                       |                   |       |       |                                                            |
|---------------------------------------|-------------------|-------|-------|------------------------------------------------------------|
| one's own VNC server - client library |                   |       |       |                                                            |
| ii libvo-aacenc0:amd64                | 0.1.3-1           |       | amd64 |                                                            |
| VisualOn AAC encoder library          |                   |       |       |                                                            |
| ii libvo-amrwbenc0:amd64              | 0.1.3-1           |       | amd64 | VisualOn AMR-WB encoder library                            |
| ii libvorbis0a:amd64                  | 1.3.5-3           |       | amd64 | decoder library for Vorbis General Audio Compression Codec |
| ii libvorbis0a:i386                   | 1.3.5-3           |       | i386  | decoder library for Vorbis General Audio Compression Codec |
| ii libvorbisenc2:amd64                | 1.3.5-3           |       | amd64 | encoder library for Vorbis General Audio Compression Codec |
| ii libvorbisenc2:i386                 | 1.3.5-3           |       | i386  | encoder library for Vorbis General Audio Compression Codec |
| ii libvorbisfile3:amd64               | 1.3.5-3           |       | amd64 | high-level API for Vorbis General Audio Compression Codec  |
| ii libvpx3:amd64                      | 1.5.0-2ubuntu1    |       | amd64 | VP8 and VP9 video codec (shared library)                   |
| ii libvpx3:i386                       | 1.5.0-2ubuntu1    |       | i386  | VP8 and VP9 video codec (shared library)                   |
| ii libvte-2.91-0:amd64                | 0.42.5-1ubuntu1   |       | amd64 | Terminal emulator widget for GTK+ 3.0 - runtime files      |
| ii libvte-2.91-common                 | 0.42.5-1ubuntu1   |       | all   | Terminal emulator widget for GTK+ 3.0 - common files       |
| ii libwacom-bin                       | 0.18-1            |       | amd64 | Wacom model feature query library -- binaries              |
| ii libwacom-common                    | 0.18-1            | all   |       | Wacom model feature query library (common files)           |
| ii libwacom2:amd64                    | 0.18-1            |       | amd64 | Wacom model feature query library                          |
| ii libwagon-java                      | 1.0.0-7           |       | all   | tools to manage Maven artifacts and deployment             |
| ii libwagon2-java                     | 2.10-3            |       | all   | resources' transport abstraction that is used in Maven     |
| ii libwaypack1:amd64                  | 4.75.2-2          |       | amd64 | audio codec (lossy and lossless) - library                 |
| ii libwaypack1:i386                   | 4.75.2-2          |       | i386  | audio codec (lossy and lossless) - library                 |
| ii libwayland-client0:amd64           | 1.9.0-1           | amd64 |       | wayland compositor infrastructure - client library         |
| ii libwayland-client0:i386            | 1.9.0-1           |       | i386  | wayland compositor infrastructure - client library         |
| ii libwayland-cursor0:amd64           | 1.9.0-1           |       | amd64 | wayland compositor infrastructure - cursor library         |
| ii libwayland-egl1-mesa:amd64         | 11.2.0-1ubuntu2.2 |       | amd64 | implementation of the Wayland EGL platform -- runtime      |
| ii libwayland-server0:amd64           | 1.9.0-1           |       | amd64 | wayland compositor infrastructure - server library         |
| ii libwayland-server0:i386            | 1.9.0-1           |       | i386  | wayland compositor infrastructure - server library         |

|                                                        |                                            |       |                              |  |
|--------------------------------------------------------|--------------------------------------------|-------|------------------------------|--|
| infrastructure - server library                        |                                            |       |                              |  |
| ii                                                     |                                            |       |                              |  |
| libwbclient0:amd64                                     | 2:4.3.11+dfsg-0ubuntu0.16.04.3             | amd64 | Samba                        |  |
| winbind client library                                 |                                            |       |                              |  |
| ii libwebkit2gtk-4.0-37:amd64                          | 2.14.3-0ubuntu0.16.04.1                    | amd64 | Web content                  |  |
| engine library for GTK+                                |                                            |       |                              |  |
| ii libwebkit2gtk-4.0-37-gtk2:amd64                     | 2.14.3-0ubuntu0.16.04.1                    | amd64 | Web                          |  |
| content engine library for GTK+ - GTK+2 plugin process |                                            |       |                              |  |
| ii libwebkitgtk-1.0-0:i386                             | 2.4.11-0ubuntu0.1                          | i386  | Web content engine           |  |
| library for GTK+                                       |                                            |       |                              |  |
| ii libwebkitgtk-1.0-common                             | 2.4.11-0ubuntu0.1                          | all   | Web content                  |  |
| engine library for GTK+ - data files                   |                                            |       |                              |  |
| ii libwebp5:amd64                                      | 0.4.4-1                                    | amd64 | Lossy compression of         |  |
| digital photographic images.                           |                                            |       |                              |  |
| ii                                                     |                                            |       |                              |  |
| libwebp5:i386                                          | 0.4.4-1                                    | i386  | Lossy compression of digital |  |
| photographic images.                                   |                                            |       |                              |  |
| ii libwebpmux1:amd64                                   | 0.4.4-1                                    | amd64 | Lossy compression of         |  |
| digital photographic images.                           |                                            |       |                              |  |
| ii libwebrtc-audio-processing-0:amd64                  | 0.1-3ubuntu1~gcc5.1                        | amd64 |                              |  |
| AudioProcessing module from the WebRTC project.        |                                            |       |                              |  |
| ii libwhoopsie-preferences0                            | 0.18                                       | amd64 | Ubuntu error tracker         |  |
| submission settings - shared library                   |                                            |       |                              |  |
| ii libwhoopsie0:amd64                                  | 0.2.52.2                                   | amd64 | Ubuntu error tracker         |  |
| submission - shared library                            |                                            |       |                              |  |
| ii libwildmidi-config                                  | 0.3.8-2                                    | all   | software                     |  |
| MIDI player configuration                              |                                            |       |                              |  |
| ii libwildmidi1:amd64                                  | 0.3.8-2                                    | amd64 | software MIDI player         |  |
| library                                                |                                            |       |                              |  |
| ii libwind0-heimdal:amd64                              | 1.7~git20150920+dfsg-4ubuntu1              | amd64 | Heimdal                      |  |
| Kerberos - stringprep implementation                   |                                            |       |                              |  |
| ii libwinpr-crt0.1:amd64                               | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (crt library)         |                                            |       |                              |  |
| ii libwinpr-dsparse0.1:amd64                           | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (dsparse library)     |                                            |       |                              |  |
| ii libwinpr-environment0.1:amd64                       | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (environment library) |                                            |       |                              |  |
| ii libwinpr-file0.1:amd64                              | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows                                                |                                            |       |                              |  |
| Portable Runtime library (file library)                |                                            |       |                              |  |
| ii libwinpr-handle0.1:amd64                            | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (handle library)      |                                            |       |                              |  |
| ii libwinpr-heap0.1:amd64                              | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (heap library)        |                                            |       |                              |  |
| ii libwinpr-input0.1:amd64                             | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (input library)       |                                            |       |                              |  |
| ii libwinpr-interlocked0.1:amd64                       | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 |                              |  |
| Windows Portable Runtime library (interlocked library) |                                            |       |                              |  |

|                               |                                            |       |                                                               |
|-------------------------------|--------------------------------------------|-------|---------------------------------------------------------------|
| ii libwinpr-library0.1:amd64  | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (library)                    |
| ii libwinpr-path0.1:amd64     | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (path library)               |
| ii libwinpr-pool0.1:amd64     | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (pool library)               |
| ii libwinpr-registry0.1:amd64 | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (registry library)           |
| ii libwinpr-rpc0.1:amd64      | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (RPC library)                |
| ii libwinpr-sspi0.1:amd64     | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (sspi library)               |
| ii libwinpr-synch0.1:amd64    | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (synch library)              |
| ii libwinpr-sysinfo0.1:amd64  | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (sysinfo library)            |
| ii libwinpr-thread0.1:amd64   | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (thread library)             |
| ii libwinpr-utils0.1:amd64    | 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 | amd64 | Windows Portable Runtime library (utils library)              |
| ii libwmf0.2-7:amd64          | 0.2.8.4-10.5ubuntu1                        | amd64 | Windows metafile conversion library                           |
| ii libwmf0.2-7-gtk            | 0.2.8.4-10.5ubuntu1                        | amd64 | Windows metafile conversion library                           |
| ii libwnck-3-0:amd64          | 3.14.1-2                                   | amd64 | Window Navigator Construction Kit - runtime files             |
| ii libwnck-3-common           | 3.14.1-2                                   | all   | Window Navigator Construction Kit - common files              |
| ii libwpd-0.10-10:amd64       | 0.10.1-1ubuntu1                            | amd64 | Library for handling WordPerfect documents (shared library)   |
| ii libwpg-0.3-3:amd64         | 0.3.1-1ubuntu1                             | amd64 | WordPerfect graphics import/convert library (shared library)  |
| ii libwps-0.4-4:amd64         | 0.4.3-1ubuntu1                             | amd64 | Works text file format import filter library (shared library) |
| ii libwrap0:amd64             | 7.6.q-25                                   | amd64 | Wietse Venema's TCP wrappers library                          |
| ii libwrap0:i386              | 7.6.q-25                                   | i386  | Wietse Venema's TCP wrappers library                          |
| ii libwww-perl                | 6.15-1                                     | all   | simple and consistent interface to the world-wide web         |
| ii libwww-robotrules-perl     | 6.01-1                                     | all   | database of robots.txt-derived permissions                    |
| ii libx11-6:amd64             | 2:1.6.3-1ubuntu2                           | amd64 | X11 client-side library                                       |
| ii libx11-6:i386              | 2:1.6.3-1ubuntu2                           | i386  | X11 client-side library                                       |
| ii libx11-data                | 2:1.6.3-1ubuntu2                           | all   | X11 client-side library                                       |
| ii libx11-dev:amd64           | 2:1.6.3-1ubuntu2                           | amd64 | X11 client-side                                               |

|                               |                           |        |                                                     |                                                              |
|-------------------------------|---------------------------|--------|-----------------------------------------------------|--------------------------------------------------------------|
| library (development headers) |                           |        |                                                     |                                                              |
| ii libx11-doc                 | 2:1.6.3-1ubuntu2          | all    | X11 client-side library (development documentation) |                                                              |
| ii libx11-protocol-perl       |                           | 0.56-7 |                                                     | all Perl module for the X Window System Protocol, version 11 |
| ii libx11-xcb-dev:amd64       | 2:1.6.3-1ubuntu2          |        | amd64                                               | Xlib/XCB interface library (development headers)             |
| ii libx11-xcb1:amd64          | 2:1.6.3-1ubuntu2          |        | amd64                                               | Xlib/XCB interface library                                   |
| ii libx11-xcb1:i386           | 2:1.6.3-1ubuntu2          |        | i386                                                | Xlib/XCB interface library                                   |
| ii libx264-148:amd64          | 2:0.148.2643+git5c65704-1 |        | amd64                                               | x264 video coding library                                    |
| ii libx265-79:amd64           | 1.9-3                     |        |                                                     | amd64 H.265/HEVC video stream encoder (shared library)       |
| ii libx86-1:amd64             | 1.1+ds1-10                |        | amd64                                               | x86 real-mode library                                        |
| ii libxalan2-java             | 2.7.1-9                   |        | all                                                 | XSL Transformations (XSLT) processor in Java                 |
| ii libxapian22v5:amd64        | 1.2.22-2                  |        | amd64                                               | Search engine library                                        |
| ii libxatracker2:amd64        | 11.2.0-1ubuntu2.2         |        | amd64                                               | X acceleration library -- runtime                            |
| ii libxau-dev:amd64           | 1:1.0.8-1                 |        | amd64                                               | X11 authorisation library (development headers)              |
| ii libxau6:amd64              | 1:1.0.8-1                 |        | amd64                                               | X11 authorisation library                                    |
| ii libxau6:i386               | 1:1.0.8-1                 |        | i386                                                | X11 authorisation library                                    |
| ii libxaw7:amd64              | 2:1.0.13-1                |        | amd64                                               | X11 Athena Widget library                                    |
| ii libxbean-java              | 4.5-1                     |        | all                                                 | plugin based Java application server                         |
| ii libxcb-dri2-0:amd64        | 1.11.1-1ubuntu1           |        | amd64                                               | X C Binding, dri2 extension                                  |
| ii libxcb-dri2-0:i386         | 1.11.1-1ubuntu1           |        | i386                                                | X C Binding, dri2 extension                                  |
| ii libxcb-dri2-0-dev:amd64    | 1.11.1-1ubuntu1           |        | amd64                                               | X C Binding, dri2 extension, development files               |
| ii libxcb-dri3-0:amd64        | 1.11.1-1ubuntu1           |        | amd64                                               | X C Binding, dri3 extension                                  |
| ii libxcb-dri3-0:i386         | 1.11.1-1ubuntu1           |        | i386                                                | X C Binding, dri3 extension                                  |
| ii libxcb-dri3-dev:amd64      | 1.11.1-1ubuntu1           |        | amd64                                               | X C Binding, dri3 extension, development files               |
| ii libxcb-glx0:amd64          | 1.11.1-1ubuntu1           |        | amd64                                               | X C Binding, glx extension                                   |
| ii libxcb-glx0:i386           | 1.11.1-1ubuntu1           |        | i386                                                | X C Binding, glx extension                                   |
| ii libxcb-glx0-dev:amd64      | 1.11.1-1ubuntu1           |        | amd64                                               | X C Binding, glx extension, development files                |

|                                                                            |                 |       |                             |
|----------------------------------------------------------------------------|-----------------|-------|-----------------------------|
| ii libxcb-iccmm4:amd64<br>amd64 utility libraries for X C Binding -- iccmm | 0.4.1-1ubuntu1  |       |                             |
| ii libxcb-image0:amd64<br>C Binding -- image                               | 0.4.0-1build1   | amd64 | utility libraries for X     |
| ii libxcb-keysyms1:amd64<br>C Binding -- keysyms                           | 0.4.0-1         | amd64 | utility libraries for X     |
| ii libxcb-present-dev:amd64<br>present extension, development files        | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-present0:amd64<br>present extension                              | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-present0:i386<br>extension                                       | 1.11.1-1ubuntu1 | i386  | X C Binding, present        |
| ii libxcb-randr0:amd64<br>X C Binding, randr extension                     | 1.11.1-1ubuntu1 | amd64 |                             |
| ii libxcb-randr0-dev:amd64<br>randr extension, development files           | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-render-util0:amd64<br>C Binding -- render-util                   | 0.3.9-1         | amd64 | utility libraries for X     |
| ii libxcb-render0:amd64<br>render extension                                | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-render0:i386<br>extension                                        | 1.11.1-1ubuntu1 | i386  | X C Binding, render         |
| ii libxcb-render0-dev:amd64<br>render extension, development files         | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-shape0:amd64<br>shape extension                                  | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-shape0-dev:amd64<br>shape extension, development files           | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-shm0:amd64<br>extension                                          | 1.11.1-1ubuntu1 | amd64 | X C Binding, shm            |
| ii libxcb-shm0:i386<br>extension                                           | 1.11.1-1ubuntu1 | i386  | X C Binding, shm            |
| ii libxcb-shm0-dev:amd64<br>shm extension, development files               | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-sync-dev:amd64<br>extension, development files                   | 1.11.1-1ubuntu1 | amd64 | X C Binding, sync           |
| ii libxcb-sync1:amd64<br>extension                                         | 1.11.1-1ubuntu1 | amd64 | X C Binding, sync           |
| ii libxcb-sync1:i386<br>1.11.1-1ubuntu1                                    |                 | i386  | X C Binding, sync extension |
| ii libxcb-util1:amd64<br>C Binding -- atom, aux and event                  | 0.4.0-0ubuntu3  | amd64 | utility libraries for X     |
| ii libxcb-xfixes0:amd64<br>xfixes extension                                | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |
| ii libxcb-xfixes0:i386<br>extension                                        | 1.11.1-1ubuntu1 | i386  | X C Binding, xfixes         |
| ii libxcb-xfixes0-dev:amd64                                                | 1.11.1-1ubuntu1 | amd64 | X C Binding,                |

|                                                 |                 |             |                                                                   |  |
|-------------------------------------------------|-----------------|-------------|-------------------------------------------------------------------|--|
| xfixes extension, development files             |                 |             |                                                                   |  |
| ii libxcb-xkb1:amd64                            | 1.11.1-1ubuntu1 | amd64       | X C Binding, XKEYBOARD extension                                  |  |
| XKEYBOARD extension                             |                 |             |                                                                   |  |
| ii libxcb1:amd64                                | 1.11.1-1ubuntu1 |             |                                                                   |  |
|                                                 | amd64           | X C Binding |                                                                   |  |
| ii libxcb1:i386                                 | 1.11.1-1ubuntu1 | i386        | X C Binding                                                       |  |
| ii libxcb1-dev:amd64                            | 1.11.1-1ubuntu1 | amd64       | X C Binding, development files                                    |  |
| development files                               |                 |             |                                                                   |  |
| ii libxcomposite-dev                            | 1:0.4.4-1       | amd64       | X11 Composite extension library (development headers)             |  |
| extension library (development headers)         |                 |             |                                                                   |  |
| ii libxcomposite1:amd64                         | 1:0.4.4-1       | amd64       | X11 Composite extension library                                   |  |
| extension library                               |                 |             |                                                                   |  |
| ii libxcomposite1:i386                          | 1:0.4.4-1       | i386        | X11 Composite extension library                                   |  |
| extension library                               |                 |             |                                                                   |  |
| ii libxcursor-dev:amd64                         | 1:1.1.14-1      | amd64       | X cursor management library (development files)                   |  |
| library (development files)                     |                 |             |                                                                   |  |
| ii libxcursor1:amd64                            | 1:1.1.14-1      | amd64       | X cursor management library                                       |  |
| library                                         |                 |             |                                                                   |  |
| ii libxcursor1:i386                             | 1:1.1.14-1      | i386        | X cursor management library                                       |  |
| library                                         |                 |             |                                                                   |  |
| ii libxdamage-dev:amd64                         | 1:1.1.4-2       | amd64       | X11 damaged region extension library (development headers)        |  |
| extension library (development headers)         |                 |             |                                                                   |  |
| ii libxdamage1:amd64                            | 1:1.1.4-2       | amd64       | X11 damaged region extension library                              |  |
| extension library                               |                 |             |                                                                   |  |
| ii libxdamage1:i386                             | 1:1.1.4-2       | i386        | X11 damaged region extension library                              |  |
| extension library                               |                 |             |                                                                   |  |
| ii libxdmcp-dev:amd64                           | 1:1.1.2-1.1     | amd64       | X11 authorisation library (development headers)                   |  |
| library (development headers)                   |                 |             |                                                                   |  |
| ii libxdmcp6:amd64                              | 1:1.1.2-1.1     | amd64       | X11 Display Manager Control Protocol library                      |  |
| library                                         |                 |             |                                                                   |  |
| ii libxdmcp6:i386                               | 1:1.1.2-1.1     | i386        | X11 Display Manager Control Protocol library                      |  |
| Control Protocol library                        |                 |             |                                                                   |  |
| ii libxerces2-java                              | 2.11.0-7        | all         | Validating XML parser for Java with DOM level 3 support           |  |
| Java with DOM level 3 support                   |                 |             |                                                                   |  |
| ii libxext-dev:amd64                            | 2:1.3.3-1       | amd64       | X11 miscellaneous extensions library (development headers)        |  |
| extensions library (development headers)        |                 |             |                                                                   |  |
| ii libxext6:amd64                               | 2:1.3.3-1       | amd64       | X11 miscellaneous extension library                               |  |
| extension library                               |                 |             |                                                                   |  |
| ii libxext6:i386                                | 2:1.3.3-1       | i386        | X11 miscellaneous extension library                               |  |
| library                                         |                 |             |                                                                   |  |
| ii                                              |                 |             |                                                                   |  |
| libxfixes-dev:amd64                             | 1:5.0.1-2       | amd64       | X11 miscellaneous 'fixes' extension library (development headers) |  |
| 'fixes' extension library (development headers) |                 |             |                                                                   |  |
| ii libxfixes3:amd64                             | 1:5.0.1-2       | amd64       | X11 miscellaneous 'fixes' extension library                       |  |
| 'fixes' extension library                       |                 |             |                                                                   |  |
| ii libxfixes3:i386                              | 1:5.0.1-2       | i386        | X11 miscellaneous 'fixes' extension library                       |  |
| library                                         |                 |             |                                                                   |  |

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|-----------------------------------------|------------------------|-------|--------------------------------------------|--|
| extension library                       |                        |       |                                            |  |
| ii libxfont1:amd64                      | 1:1.5.1-1              | amd64 | X11 font rasterisation                     |  |
| library                                 |                        |       |                                            |  |
| ii libxft-dev                           | 2.3.2-1                | amd64 | FreeType-based font drawing                |  |
| library for X (development files)       |                        |       |                                            |  |
| ii libxft2:amd64                        | 2.3.2-1                | amd64 | FreeType-based                             |  |
| font drawing library for X              |                        |       |                                            |  |
| ii libxi-dev                            | 2:1.7.6-1              | amd64 | X11 Input extension library                |  |
| (development headers)                   |                        |       |                                            |  |
| ii libxi6:amd64                         | 2:1.7.6-1              | amd64 | X11 Input extension                        |  |
| library                                 |                        |       |                                            |  |
| ii libxi6:i386                          | 2:1.7.6-1              | i386  | X11 Input extension library                |  |
| ii libxinerama-dev:amd64                | 2:1.1.3-1              | amd64 | X11 Xinerama                               |  |
| extension library (development headers) |                        |       |                                            |  |
| ii libxinerama1:amd64                   | 2:1.1.3-1              | amd64 | X11 Xinerama                               |  |
| extension library                       |                        |       |                                            |  |
| ii libxinerama1:i386                    | 2:1.1.3-1              | i386  | X11 Xinerama extension                     |  |
| library                                 |                        |       |                                            |  |
| ii libxkbcommon-x11-0:amd64             |                        |       |                                            |  |
| 0.5.0-1ubuntu2                          |                        | amd64 | library to create keymaps with the XKB X11 |  |
| protocol                                |                        |       |                                            |  |
| ii libxkbcommon0:amd64                  | 0.5.0-1ubuntu2         | amd64 | library interface                          |  |
| to the XKB compiler - shared library    |                        |       |                                            |  |
| ii libxkbfile1:amd64                    | 1:1.0.9-0ubuntu1       | amd64 | X11 keyboard file                          |  |
| manipulation library                    |                        |       |                                            |  |
| ii libxklavier16:amd64                  | 5.4-0ubuntu2           | amd64 | X Keyboard                                 |  |
| Extension high-level API                |                        |       |                                            |  |
| ii libxml-commons-external-java         | 1.4.01-2build1         | all   | XML Commons                                |  |
| external code - DOM, SAX, and JAXP, etc |                        |       |                                            |  |
| ii libxml-commons-resolver1.1-java      | 1.2-7build1            | all   | XML entity and                             |  |
| URI resolver library                    |                        |       |                                            |  |
| ii libxml-dom-perl                      |                        |       |                                            |  |
| 1.44-2                                  |                        | all   | Perl module for building DOM Level 1       |  |
| compliant doc structures                |                        |       |                                            |  |
| ii libxml-parser-perl                   | 2.44-1build1           | amd64 | Perl module for parsing                    |  |
| XML files                               |                        |       |                                            |  |
| ii libxml-perl                          | 0.08-2                 | all   | Perl modules for working with              |  |
| XML                                     |                        |       |                                            |  |
| ii libxml-regexp-perl                   | 0.04-1                 | all   | Perl module for regular                    |  |
| expressions for XML tokens              |                        |       |                                            |  |
| ii libxml-twig-perl                     | 1:3.48-1               | all   | Perl module for processing                 |  |
| huge XML documents in tree mode         |                        |       |                                            |  |
| ii libxml-xpathengine-perl              | 0.13-1                 | all   | re-usable XPath engine                     |  |
| for DOM-like                            |                        |       |                                            |  |
| trees                                   |                        |       |                                            |  |
| ii libxml2:amd64                        | 2.9.3+dfsg1-1ubuntu0.1 | amd64 | GNOME XML                                  |  |
| library                                 |                        |       |                                            |  |
| ii libxml2:i386                         | 2.9.3+dfsg1-1ubuntu0.1 | i386  | GNOME XML                                  |  |

|                                              |                               |       |                                         |  |
|----------------------------------------------|-------------------------------|-------|-----------------------------------------|--|
| library                                      |                               |       |                                         |  |
| ii libxml2-dev:amd64                         | 2.9.3+dfsg1-1ubuntu0.1        | amd64 | Development                             |  |
| files for the GNOME XML library              |                               |       |                                         |  |
| ii libxml2-utils                             | 2.9.3+dfsg1-1ubuntu0.1        | amd64 | XML utilities                           |  |
| ii libxmu6:amd64                             | 2:1.1.2-2                     | amd64 | X11 miscellaneous                       |  |
| utility library                              |                               |       |                                         |  |
| ii libxmuu1:amd64                            | 2:1.1.2-2                     | amd64 | X11 miscellaneous                       |  |
| micro-utility library                        |                               |       |                                         |  |
| ii libxom-java                               | 1.2.10-1                      |       |                                         |  |
| all                                          | New XML object model for Java |       |                                         |  |
| ii libxpm4:amd64                             | 1:3.5.11-1ubuntu0.16.04.1     | amd64 | X11 pixmap                              |  |
| library                                      |                               |       |                                         |  |
| ii libxpp2-java                              | 2.1.10-7build1                | all   | XML pull parser library for             |  |
| java V2                                      |                               |       |                                         |  |
| ii libxpp3-java                              | 1.1.4c-2build1                | all   | XML pull parser library for             |  |
| java                                         |                               |       |                                         |  |
| ii libxrandr-dev:amd64                       | 2:1.5.0-1                     | amd64 | X11 RandR extension                     |  |
| library (development headers)                |                               |       |                                         |  |
| ii libxrandr2:amd64                          | 2:1.5.0-1                     | amd64 | X11 RandR extension                     |  |
| library                                      |                               |       |                                         |  |
| ii libxrandr2:i386                           | 2:1.5.0-1                     | i386  | X11 RandR extension                     |  |
| library                                      |                               |       |                                         |  |
| ii                                           |                               |       |                                         |  |
| libxrender-dev:amd64                         | 1:0.9.9-0ubuntu1              | amd64 | X Rendering                             |  |
| Extension client library (development files) |                               |       |                                         |  |
| ii libxrender1:amd64                         | 1:0.9.9-0ubuntu1              | amd64 | X Rendering                             |  |
| Extension client library                     |                               |       |                                         |  |
| ii libxrender1:i386                          | 1:0.9.9-0ubuntu1              | i386  | X Rendering Extension                   |  |
| client library                               |                               |       |                                         |  |
| ii libxres1:amd64                            | 2:1.0.7-1                     | amd64 | X11 Resource extension                  |  |
| library                                      |                               |       |                                         |  |
| ii libxshmfence-dev:amd64                    | 1.2-1                         | amd64 | X shared memory                         |  |
| fences - development files                   |                               |       |                                         |  |
| ii libxshmfence1:amd64                       | 1.2-1                         | amd64 | X shared memory                         |  |
| fences - shared library                      |                               |       |                                         |  |
| ii libxshmfence1:i386                        | 1.2-1                         | i386  | X shared memory fences - shared library |  |
| library                                      |                               |       |                                         |  |
| ii libxslt1.1:amd64                          | 1.1.28-2.1                    | amd64 | XSLT 1.0 processing                     |  |
| library - runtime library                    |                               |       |                                         |  |
| ii libxslt1.1:i386                           | 1.1.28-2.1                    | i386  | XSLT 1.0 processing library             |  |
| - runtime library                            |                               |       |                                         |  |
| ii libxss1:amd64                             | 1:1.2.2-1                     | amd64 | X11 Screen Saver                        |  |
| extension library                            |                               |       |                                         |  |
| ii libxss1:i386                              | 1:1.2.2-1                     | i386  | X11 Screen Saver extension              |  |
| library                                      |                               |       |                                         |  |
| ii libxt6:amd64                              | 1:1.1.5-0ubuntu1              | amd64 | X11 toolkit intrinsics                  |  |
| library                                      |                               |       |                                         |  |
| ii libxt6:i386                               |                               |       |                                         |  |

|                             |                               |                                |                                                                |
|-----------------------------|-------------------------------|--------------------------------|----------------------------------------------------------------|
| 1:1.1.5-0ubuntu1            | i386                          | X11 toolkit intrinsics library |                                                                |
| ii libxtables11:amd64       | 1.6.0-2ubuntu3                | amd64                          | netfilter xtables library                                      |
| ii libxtst6:amd64           | 2:1.2.2-1                     | amd64                          | X11 Testing -- Record extension library                        |
| ii libxtst6:i386            | 2:1.2.2-1                     | i386                           | X11 Testing -- Record extension library                        |
| ii libxv1:amd64             | 2:1.0.10-1                    | amd64                          | X11 Video extension library                                    |
| ii libxv1:i386              | 2:1.0.10-1                    | i386                           | X11 Video extension library                                    |
| ii libxvidcore4:amd64       | 2:1.3.4-1                     |                                |                                                                |
| amd64                       |                               |                                | Open source MPEG-4 video codec (library)                       |
| ii libxvmc1:amd64           | 2:1.0.9-1ubuntu1              | amd64                          | X11 Video extension library                                    |
| ii libxxf86dga1:amd64       | 2:1.1.4-1                     | amd64                          | X11 Direct Graphics Access extension library                   |
| ii libxxf86vm-dev:amd64     | 1:1.1.4-1                     | amd64                          | X11 XFree86 video mode extension library (development headers) |
| ii libxxf86vm1:amd64        | 1:1.1.4-1                     | amd64                          | X11 XFree86 video mode extension library                       |
| ii libxxf86vm1:i386         | 1:1.1.4-1                     | i386                           | X11 XFree86 video mode extension library                       |
| ii libyajl2:amd64           | 2.1.0-2                       | amd64                          | Yet Another JSON Library                                       |
| ii libyaml-0-2:amd64        | 0.1.6-3                       | amd64                          | Fast YAML 1.1 parser and emitter library                       |
| ii libyaml-libyaml-perl     | 0.41-6build1                  | amd64                          | Perl interface to libyaml, a YAML implementation               |
| ii libyaml-tiny-perl        | 1.69-1                        | all                            | Perl module for reading and writing YAML files                 |
| ii libyelp0:amd64           | 3.18.1-1ubuntu4               | amd64                          | Library for the GNOME help browser                             |
| ii libzbar0:amd64           | 0.10+doc-10ubuntu1            | amd64                          | bar code scanner and decoder (library)                         |
| ii libzeitgeist-1.0-1:amd64 | 0.3.18-1ubuntu3               | amd64                          | library to access Zeitgeist - shared library                   |
| ii libzeitgeist-2.0-0:amd64 | 0.9.16-0ubuntu4               | amd64                          | library to access Zeitgeist - shared library                   |
| ii libzmq5:amd64            | 4.1.4-7                       | amd64                          | lightweight messaging kernel (shared library)                  |
| ii libzvb-common            | 0.2.35-10                     | all                            | Vertical Blanking Interval decoder (VBI) - common files        |
| ii libzvb0:amd64            | 0.2.35-10                     | amd64                          | Vertical Blanking Interval decoder (VBI) - runtime files       |
| ii libzip-0-13:amd64        | 0.13.62-3                     | amd64                          | library providing read access on ZIP-archives - library        |
| ii light-themes             | 14.04+16.04.20161024-0ubuntu1 |                                |                                                                |

|    |                                                                                         |                                      |       |                                                      |
|----|-----------------------------------------------------------------------------------------|--------------------------------------|-------|------------------------------------------------------|
|    | all                                                                                     | Light Themes (Ambiance and Radiance) |       |                                                      |
| ii | lightdm                                                                                 | 1.18.3-0ubuntu1                      | amd64 | Display Manager                                      |
| ii | lintian                                                                                 | 2.5.43                               | all   | Debian package checker                               |
| ii | linux-base                                                                              | 4.0ubuntu1                           | all   | Linux image base package                             |
| ii | linux-firmware<br>drivers                                                               | 1.157.8                              | all   | Firmware for Linux kernel                            |
| ii | linux-generic<br>kernel and headers                                                     | 4.4.0.62.65                          | amd64 | Complete Generic Linux                               |
| ii | linux-headers-4.4.0-59<br>Linux kernel version 4.4.0                                    | 4.4.0-59.80                          | all   | Header files related to                              |
| ii | linux-headers-4.4.0-59-generic<br>4.4.0-59.80                                           | amd64                                |       | Linux kernel headers for version 4.4.0 on 64 bit x86 |
|    | SMP                                                                                     |                                      |       |                                                      |
| ii | linux-headers-4.4.0-62<br>Linux kernel version 4.4.0                                    | 4.4.0-62.83                          | all   | Header files related to                              |
| ii | linux-headers-4.4.0-62-generic<br>headers for version 4.4.0 on 64 bit x86 SMP           | 4.4.0-62.83                          | amd64 | Linux kernel                                         |
| ii | linux-headers-generic<br>headers                                                        | 4.4.0.62.65                          | amd64 | Generic Linux kernel                                 |
| rc | linux-image-4.4.0-57-generic<br>image for version 4.4.0 on 64 bit x86 SMP               | 4.4.0-57.78                          | amd64 | Linux kernel                                         |
| ii | linux-image-4.4.0-59-generic<br>for<br>version 4.4.0 on 64 bit x86 SMP                  | 4.4.0-59.80                          | amd64 | Linux kernel image                                   |
| ii | linux-image-4.4.0-62-generic<br>for version 4.4.0 on 64 bit x86 SMP                     | 4.4.0-62.83                          | amd64 | Linux kernel image                                   |
| rc | linux-image-extra-4.4.0-57-generic<br>extra modules for version 4.4.0 on 64 bit x86 SMP | 4.4.0-57.78                          | amd64 | Linux kernel                                         |
| ii | linux-image-extra-4.4.0-59-generic<br>extra modules for version 4.4.0 on 64 bit x86 SMP | 4.4.0-59.80                          | amd64 | Linux kernel                                         |
| ii | linux-image-extra-4.4.0-62-generic<br>extra modules for version 4.4.0 on 64 bit x86 SMP | 4.4.0-62.83                          | amd64 | Linux kernel                                         |
| ii | linux-image-generic<br>image                                                            | 4.4.0.62.65                          | amd64 | Generic Linux kernel                                 |
| ii | linux-libc-dev:amd64<br>amd64                                                           | 4.4.0-62.83                          |       | Linux Kernel Headers for development                 |
| ii | linux-signed-generic<br>Generic Linux kernel and headers                                | 4.4.0.62.65                          | amd64 | Complete Signed                                      |
| rc | linux-signed-image-4.4.0-57-generic<br>image generic                                    | 4.4.0-57.78                          | amd64 | Signed kernel                                        |
| ii | linux-signed-image-4.4.0-59-generic<br>image generic                                    | 4.4.0-59.80                          | amd64 | Signed kernel                                        |
| ii | linux-signed-image-4.4.0-62-generic<br>image generic                                    | 4.4.0-62.83                          | amd64 | Signed kernel                                        |
| ii | linux-signed-image-generic<br>Linux kernel image                                        | 4.4.0.62.65                          | amd64 | Signed Generic                                       |
| ii | linux-sound-base                                                                        | 1.0.25+dfsg-0ubuntu5                 | all   | base package for                                     |

|                                               |                     |                                                                             |                                       |
|-----------------------------------------------|---------------------|-----------------------------------------------------------------------------|---------------------------------------|
| ALSA and OSS sound systems                    |                     |                                                                             |                                       |
| ii linux-tools-4.4.0-59                       | 4.4.0-59.80         | amd64                                                                       | Linux kernel version                  |
| specific tools for version 4.4.0-59           |                     |                                                                             |                                       |
| ii linux-tools-4.4.0-59-generic               | 4.4.0-59.80         | amd64                                                                       | Linux kernel version                  |
| specific tools for version 4.4.0-59           |                     |                                                                             |                                       |
| ii linux-tools-4.4.0-62                       | 4.4.0-62.83         | amd64                                                                       | Linux kernel version                  |
| specific tools for version 4.4.0-62           |                     |                                                                             |                                       |
| ii linux-tools-4.4.0-62-generic               | 4.4.0-62.83         | amd64                                                                       | Linux kernel version                  |
| specific tools for version 4.4.0-62           |                     |                                                                             |                                       |
| ii linux-tools-common                         | 4.4.0-62.83         | all                                                                         | Linux kernel version                  |
| specific tools for version 4.4.0              |                     |                                                                             |                                       |
| ii linux-tools-virtual                        | 4.4.0.62.65         |                                                                             |                                       |
|                                               | amd64               | This package will always depend on the latest minimal generic kernel tools. |                                       |
| ii lldb                                       | 1:3.8-33ubuntu3.1   | amd64                                                                       | Next generation, high-                |
| performance debugger                          |                     |                                                                             |                                       |
| ii lldb-3.8                                   | 1:3.8-2ubuntu4      | amd64                                                                       | Next generation, high-                |
| performance debugger                          |                     |                                                                             |                                       |
| ii llvm-3.8                                   | 1:3.8-2ubuntu4      | amd64                                                                       | Modular compiler and                  |
| toolchain technologies                        |                     |                                                                             |                                       |
| ii llvm-3.8-dev                               | 1:3.8-2ubuntu4      | amd64                                                                       | Modular compiler and                  |
| toolchain technologies, libraries and headers |                     |                                                                             |                                       |
| ii llvm-3.8-runtime                           | 1:3.8-2ubuntu4      | amd64                                                                       | Modular compiler and                  |
| toolchain technologies, IR interpreter        |                     |                                                                             |                                       |
| ii                                            |                     |                                                                             |                                       |
| Imodern                                       | 2.004.5-1           | all                                                                         | scalable PostScript and               |
| OpenType fonts based on Computer Modern       |                     |                                                                             |                                       |
| ii locales                                    | 2.23-0ubuntu5       | all                                                                         | GNU C Library: National               |
| Language (locale) data [support]              |                     |                                                                             |                                       |
| ii login                                      | 1:4.2-3.1ubuntu5    | amd64                                                                       | system login tools                    |
| ii logrotate                                  | 3.8.7-2ubuntu2      | amd64                                                                       | Log rotation utility                  |
| ii lp-solve                                   | 5.5.0.13-7build2    | amd64                                                                       | Solve (mixed integer)                 |
| linear programming problems                   |                     |                                                                             |                                       |
| ii lsb-base                                   | 9.20160110ubuntu0.2 | all                                                                         | Linux Standard Base init              |
| script functionality                          |                     |                                                                             |                                       |
| ii lsb-release                                | 9.20160110ubuntu0.2 | all                                                                         | Linux Standard Base version reporting |
| utility                                       |                     |                                                                             |                                       |
| ii lshw                                       | 02.17-1.1ubuntu3.2  | amd64                                                                       | information about                     |
| hardware configuration                        |                     |                                                                             |                                       |
| ii lsof                                       | 4.89+dfsg-0.1       | amd64                                                                       | Utility to list open files            |
| ii ltrace                                     | 0.7.3-5.1ubuntu4    | amd64                                                                       | Tracks runtime library                |
| calls in dynamically linked programs          |                     |                                                                             |                                       |
| ii m4                                         | 1.4.17-5            | amd64                                                                       | macro processing language             |
| ii make                                       | 4.1-6               | amd64                                                                       | utility for directing                 |
| compilation                                   |                     |                                                                             |                                       |
| ii makedev                                    | 2.3.1-93ubuntu1     | all                                                                         | creates device files in /dev          |
| ii man-db                                     | 2.7.5-1             | amd64                                                                       | on-line manual pager                  |

|                                                                                  |                          |       |                                |
|----------------------------------------------------------------------------------|--------------------------|-------|--------------------------------|
| ii manpages<br>GNU/Linux system                                                  | 4.04-2                   | all   | Manual pages about using a     |
| ii manpages-dev<br>GNU/Linux for development                                     | 4.04-2                   | all   | Manual pages about using       |
| ii mathpiper<br>System                                                           | 0.81f+svn4469+dfsg3-3    | all   | Java Computer Algebra          |
| ii maven<br>management and comprehension tool                                    | 3.3.9-3                  | all   | Java software project          |
| ii mawk<br>amd64 a pattern scanning and text processing language                 | 1.3.3-17ubuntu2          |       |                                |
| ii media-player-info<br>files                                                    | 22-2                     | all   | Media player identification    |
| ii memtest86+<br>memory tester                                                   | 5.01-3ubuntu2            | amd64 | thorough real-mode             |
| ii mesa-common-dev:amd64<br>documentation for Mesa                               | 11.2.0-1ubuntu2.2        | amd64 | Developer                      |
| ii mesa-vidpau-drivers:amd64<br>video acceleration drivers                       | 11.2.0-1ubuntu2.2        | amd64 | Mesa VDPAU                     |
| ii metacity-common<br>Metacity window manager                                    | 1:3.18.7-0ubuntu0.2      | all   | shared files for the           |
| ii mime-support<br>all MIME files 'mime.types' & 'mailcap', and support programs | 3.59ubuntu1              |       |                                |
| ii mlocate<br>filesystem based on their name                                     | 0.26-1ubuntu2            | amd64 | quickly find files on the      |
| ii mobile-broadband-provider-info<br>broadband service providers                 | 20140317-1               | all   | database of mobile             |
| ii modemmanager<br>managing modems                                               | 1.4.12-1ubuntu1          | amd64 | D-Bus service for              |
| ii mokutil<br>machine owner keys                                                 | 0.3.0-0ubuntu3           | amd64 | tools for manipulating         |
| ii mongodb-org-server<br>server                                                  | 3.0.14                   | amd64 | MongoDB database               |
| ii mongodb-org-shell<br>amd64 MongoDB shell client                               | 3.0.14                   |       |                                |
| ii mongodb-org-tools                                                             | 3.0.14                   | amd64 | MongoDB tools                  |
| ii mono-4.0-gac<br>CLI 4.0)                                                      | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono GAC tool (for             |
| ii mono-csharp-shell                                                             | 4.2.1.102+dfsg2-7ubuntu4 | all   | interactive C# shell           |
| ii mono-devel<br>tools                                                           | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono development               |
| ii mono-gac                                                                      | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono GAC tool                  |
| ii mono-mcs<br>4.0 / 5.0 compiler for CLI 2.0 / 4.0 / 4.5                        | 4.2.1.102+dfsg2-7ubuntu4 | all   | Mono C# 2.0 / 3.0 /            |
| ii mono-runtime<br>4.2.1.102+dfsg2-7ubuntu4                                      | amd64                    |       | Mono runtime - default version |
| ii mono-runtime-common<br>runtime - common files                                 | 4.2.1.102+dfsg2-7ubuntu4 | amd64 | Mono                           |
| ii mono-runtime-sgen                                                             | 4.2.1.102+dfsg2-7ubuntu4 | amd64 | Mono runtime                   |

|                                                     |                             |       |                                |
|-----------------------------------------------------|-----------------------------|-------|--------------------------------|
| - SGen                                              |                             |       |                                |
| ii mono-utils                                       | 4.2.1.102+dfsg2-7ubuntu4    | amd64 | Mono utilities                 |
| ii mono-xbuild                                      | 4.2.1.102+dfsg2-7ubuntu4    | all   | MSBuild-compatible             |
| build system for Mono                               |                             |       |                                |
| ii mount                                            | 2.27.1-6ubuntu3.2           | amd64 | tools for mounting and         |
| manipulating filesystems                            |                             |       |                                |
| ii mountall                                         | 2.54ubuntu1                 | amd64 | filesystem                     |
| mounting tool                                       |                             |       |                                |
| ii mousetweaks                                      | 3.12.0-1ubuntu2             | amd64 | mouse accessibility            |
| enhancements for the GNOME desktop                  |                             |       |                                |
| ii mscompress                                       | 0.4-3                       | amd64 | Microsoft                      |
| "compress.exe/expand.exe" compatible (de)compressor |                             |       |                                |
| ii mtools                                           | 4.0.18-2ubuntu0.16.04       | amd64 | Tools for manipulating         |
| MSDOS files                                         |                             |       |                                |
| ii mtr-tiny                                         | 0.86-1ubuntu0.1             | amd64 | Full screen ncurses            |
| traceroute tool                                     |                             |       |                                |
| ii multiarch-support                                | 2.23-0ubuntu5               | amd64 | Transitional package           |
| to ensure multiarch compatibility                   |                             |       |                                |
| ii mysql-common                                     | 5.7.17-0ubuntu0.16.04.1     | all   | MySQL                          |
| database common files, e.g. /etc/mysql/my.cnf       |                             |       |                                |
| ii mythes-en-au                                     | 2.1-5.4                     | all   | Australian English Thesaurus   |
| for OpenOffice.org                                  |                             |       |                                |
| ii mythes-en-us                                     | 1:5.1.0-1ubuntu2.2          | all   | English (USA)                  |
| Thesaurus for LibreOffice                           |                             |       |                                |
| ii mythes-it                                        | 2.0.7.gh.deb1-4.1           | all   | Italian Thesaurus for          |
| OpenOffice.org 2                                    |                             |       |                                |
| ii nano                                             | 2.5.3-2ubuntu1              | amd64 | small, friendly text editor    |
| inspired by Pico                                    |                             |       |                                |
| ii nautilus                                         | 1:3.18.4.is.3.14.3-0ubuntu5 | amd64 | file manager and               |
| graphical shell for GNOME                           |                             |       |                                |
| ii nautilus-data                                    | 1:3.18.4.is.3.14.3-0ubuntu5 | all   |                                |
| data files for nautilus                             |                             |       |                                |
| ii nautilus-sendto                                  | 3.8.2-1ubuntu1              | amd64 | integrates Evolution           |
| and Pidgin into the Nautilus file manager           |                             |       |                                |
| ii nautilus-share                                   | 0.7.3-2ubuntu1              | amd64 | Nautilus extension to          |
| share folder using Samba                            |                             |       |                                |
| ii ncurses-base                                     | 6.0+20160213-1ubuntu1       | all   | basic terminal type            |
| definitions                                         |                             |       |                                |
| ii ncurses-bin                                      | 6.0+20160213-1ubuntu1       | amd64 | terminal-related               |
| programs and man pages                              |                             |       |                                |
| ii net-tools                                        | 1.60-26ubuntu1              | amd64 | NET-3 networking               |
| toolkit                                             |                             |       |                                |
| ii netbase                                          | 5.3                         | all   | Basic TCP/IP networking system |
| ii                                                  |                             |       |                                |
| netcat-openbsd                                      | 1.105-7ubuntu1              | amd64 | TCP/IP swiss army              |
| knife                                               |                             |       |                                |
| ii netpbm                                           | 2:10.0-15.3                 | amd64 | Graphics conversion tools      |
| between image formats                               |                             |       |                                |

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|-------------------------------------------------------------------------------------------|------------------------|-------|----------------------------------|
| ii network-manager<br>management framework (daemon and userspace tools)                   | 1.2.2-0ubuntu0.16.04.3 | amd64 | network                          |
| ii network-manager-gnome<br>management framework (GNOME frontend)                         | 1.2.0-0ubuntu0.16.04.4 | amd64 | network                          |
| ii network-manager-pptp<br>management framework (PPTP plugin core)                        | 1.1.93-1ubuntu1        | amd64 | network                          |
| ii network-manager-pptp-gnome<br>management framework (PPTP<br>plugin GNOME GUI)          | 1.1.93-1ubuntu1        | amd64 | network                          |
| ii node-abbrev<br>set of strings - Node.js module                                         | 1.0.5-2                | all   | Get unique abbreviations for a   |
| ii node-ansi<br>for Node.js                                                               | 0.3.0-2                | all   | Advanced ANSI formatting tool    |
| ii node-ansi-color-table<br>ansi output - Node.js module                                  | 1.0.0-1                | all   | Color and format tables for      |
| ii node-archy<br>module for Node.js                                                       | 0.0.2-1                | all   | Pretty-print nested hierarchies  |
| ii node-async<br>common patterns for asynchronous Javascript                              | 0.8.0-1                | all   | higher-order functions and       |
| ii node-block-stream<br>all Stream of fixed-size blocks, with zero-padding when necessary | 0.0.7-1                |       |                                  |
| ii node-combined-stream<br>another - module for Node.js                                   | 0.0.5-1                | all   | Append streams one after         |
| ii node-cookie-jar<br>clients - module for Node.js                                        | 0.3.1-1                | all   | Cookie handling for HTTP         |
| ii node-delayed-stream<br>later handling - module for Node.js                             | 0.0.5-1                | all   | Buffer stream events for         |
| ii node-forever-agent<br>keep-alive requests - module for Node.js                         | 0.5.1-1                | all   | HTTP agent supporting            |
| ii node-form-data<br>streams module for Node.js                                           | 0.1.0-1                | all   | Create multipart/form-data       |
| ii<br>node-fstream<br>tools for Node.js                                                   | 0.1.24-1               | all   | Advanced filesystem streaming    |
| ii node-fstream-ignore<br>configurable by .ignore module for Node.js                      | 0.0.6-2                | all   | Directory reader                 |
| ii node-github-url-from-git<br>url to an http url - Node.js module                        | 1.1.1-1                | all   | Convert github git or gist       |
| ii node-glob                                                                              | 4.0.5-1                | all   | glob functionality for Node.js   |
| ii node-graceful-fs<br>improving the Node.js fs module                                    | 3.0.2-1                | all   | drop-in replacement              |
| ii node-gyp<br>addon build tool for Node.js                                               | 3.0.3-2ubuntu1         | all   | Native                           |
| ii node-inherits<br>Node.js environment                                                   | 2.0.1-3                | all   | Exposes inherits function from   |
| ii node-ini<br>for Node.js                                                                | 1.1.0-1                | all   | ini format parser and serializer |
| ii node-json-stringify-safe                                                               | 5.0.0-1                | all   | JSON.stringify with              |

|                                           |          |     |     |                                               |
|-------------------------------------------|----------|-----|-----|-----------------------------------------------|
| circular references module for Node.js    |          |     |     |                                               |
| ii node-lockfile                          | 0.4.1-1  |     | all | Asynchronous file lock                        |
| module for Node.js                        |          |     |     |                                               |
| ii node-lru-cache                         | 2.3.1-1  |     | all | least-recently-used cache                     |
| object for Node.js                        |          |     |     |                                               |
| ii node-mime                              | 1.3.4-1  |     | all |                                               |
| library for mime-type mapping for Node.js |          |     |     |                                               |
| ii node-minimatch                         | 1.0.0-1  |     | all | Convert glob expressions                      |
| into RegExp objects for Node.js           |          |     |     |                                               |
| ii node-mkdirp                            | 0.5.0-1  |     | all | Recursively create directories                |
| - Node.js module                          |          |     |     |                                               |
| ii node-mute-stream                       | 0.0.4-1  |     | all | Pass-through stream that                      |
| can be muted module for Node.js           |          |     |     |                                               |
| ii node-node-uuid                         | 1.4.0-1  |     | all | simple, fast generation of                    |
| RFC4122 UUIDs - Node module               |          |     |     |                                               |
| ii node-nopt                              | 3.0.1-1  |     | all | Command-line option parser                    |
| for Node.js                               |          |     |     |                                               |
| ii node-normalize-package-data            | 0.2.2-1  |     |     |                                               |
|                                           |          | all |     | Normalizes package metadata - Node.js module  |
| ii node-npmlog                            | 0.0.4-1  |     | all | Logger with custom levels                     |
| and colored output for Node.js            |          |     |     |                                               |
| ii node-once                              | 1.1.1-1  |     | all | Run a function only once with                 |
| this module for Node.js                   |          |     |     |                                               |
| ii node-osenv                             | 0.1.0-1  |     | all | Environment settings lookup                   |
| module for Node.js                        |          |     |     |                                               |
| ii node-qs                                | 2.2.4-1  |     | all | Parse, stringify query strings for            |
| Node.js                                   |          |     |     |                                               |
| ii node-read                              | 1.0.5-1  |     | all | Read user input from stdin                    |
| module for Node.js                        |          |     |     |                                               |
| ii node-read-package-json                 | 1.2.4-1  |     | all | Read package.json for npm module for Node.js  |
|                                           |          |     |     |                                               |
| ii node-request                           | 2.26.1-1 |     | all | simplified HTTP request                       |
| client module for Node.js                 |          |     |     |                                               |
| ii node-retry                             | 0.6.0-1  |     | all | Retry strategies for failed                   |
| operations module for Node.js             |          |     |     |                                               |
| ii node-rimraf                            | 2.2.8-1  |     | all | Deep deletion (like rm -rf)                   |
| module for Node.js                        |          |     |     |                                               |
| ii node-semver                            | 2.1.0-2  |     | all | Semantic Versioning for                       |
| Node.js                                   |          |     |     |                                               |
| ii node-sha                               | 1.2.3-1  |     | all | Check and get file or stream                  |
| hashes - module for Node.js               |          |     |     |                                               |
| ii node-sigmund                           | 1.0.0-1  |     | all | Quick and dirty signatures for Objects module |
| for Node.js                               |          |     |     |                                               |
| ii node-slide                             | 1.1.4-1  |     | all | Simple chain and asyncMap                     |
| flow control module for Node.js           |          |     |     |                                               |
| ii node-tar                               | 1.0.3-2  |     | all | read and write portable tar                   |
| archives module for Node.js               |          |     |     |                                               |

|                                                                   |                                |       |                                         |
|-------------------------------------------------------------------|--------------------------------|-------|-----------------------------------------|
| ii node-tunnel-agent<br>module for Node.js                        | 0.3.1-1                        | all   | HTTP proxy tunneling agent              |
| ii node-underscore<br>programming helper library - NodeJS         | 1.7.0~dfsg-1ubuntu1            | all   | JavaScript's functional                 |
| ii node-which<br>'which' module for Node.js                       | 1.0.5-2                        | all   | Cross-platform                          |
| ii nodejs<br>javascript                                           | 4.2.6~dfsg-1ubuntu4.1          | amd64 | evented I/O for V8                      |
| ii nodejs-dev<br>javascript (development files)                   | 4.2.6~dfsg-1ubuntu4.1          | amd64 | evented I/O for V8                      |
| ii nodejs-legacy<br>javascript (legacy symlink)                   | 4.2.6~dfsg-1ubuntu4.1          | all   | evented I/O for V8                      |
| ii notify-osd<br>displays passive pop-up notifications            | 0.9.35+16.04.20160415-0ubuntu1 | amd64 | daemon that                             |
| ii notify-osd-icons<br>icons                                      | 0.8+15.10.20151016.2-0ubuntu1  | all   | Notify-OSD                              |
| ii npm<br>ii                                                      | 3.5.2-0ubuntu4                 | all   | package manager for Node.js             |
| ntfs-3g<br>driver for FUSE                                        | 1:2015.3.14AR.1-1ubuntu0.1     | amd64 | read/write NTFS                         |
| ii nux-tools<br>toolkit for real-time applications - tools        | 4.0.8+16.04.20160705-0ubuntu1  | amd64 | Visual rendering                        |
| ii ocl-icd-libopencl1:amd64<br>Loader                             | 2.2.8-1                        | amd64 | Generic OpenCL ICD                      |
| ii ocl-icd-opencl-dev:amd64<br>files                              | 2.2.8-1                        | amd64 | OpenCL development                      |
| ii onboard<br>Keyboard                                            | 1.2.0-0ubuntu5                 | amd64 | Simple On-screen                        |
| ii onboard-data<br>the word suggestion feature of Onboard         | 1.2.0-0ubuntu5                 | all   | Language model files for                |
| ii opencl-headers<br>files                                        | 2.0~svn32091-2                 | all   | OpenCL (Open Computing Language) header |
| ii opencv-data<br>opencv                                          | 2.4.9.1+dfsg-1.5ubuntu1        | all   | development data for                    |
| ii openoffice.org-hyphenation<br>OpenOffice.org                   | 0.9                            | all   | Hyphenation patterns for                |
| ii openprinting-ppds<br>support - PostScript PPD files            | 20160212-0ubuntu1              | all   | OpenPrinting printer                    |
| ii openssh-client<br>client, for secure access to remote machines | 1:7.2p2-4ubuntu2.1             | amd64 | secure shell (SSH)                      |
| ii openssl<br>toolkit - cryptographic utility                     | 1.0.2g-1ubuntu4.6              | amd64 | Secure Sockets Layer                    |
| ii oracle-java8-installer<br>8u121-1~webupd8~0                    |                                | all   | Oracle Java(TM) Development Kit (JDK) 8 |
| ii oracle-java8-set-default<br>as default Java                    | 8u121-1~webupd8~0              | all   | Set Oracle JDK 8                        |
| ii os-prober                                                      | 1.70ubuntu3                    | amd64 | utility to detect other                 |

|                                                      |                                          |       |                                            |  |
|------------------------------------------------------|------------------------------------------|-------|--------------------------------------------|--|
| OSes on a set of drives                              |                                          |       |                                            |  |
| ii overlay-scrollbar                                 | 0.2.17.1+16.04.20151117-0ubuntu1.16.04.1 | all   | Scrollbar                                  |  |
| overlay - configuration                              |                                          |       |                                            |  |
| ii overlay-scrollbar-gtk2:amd64                      | 0.2.17.1+16.04.20151117-0ubuntu1.16.04.1 | amd64 |                                            |  |
| GTK 2 module for overlay scrollbars                  |                                          |       |                                            |  |
| ii oxideqt-codecs-extra:amd64                        | 1.20.4-0ubuntu0.16.04.1                  | amd64 | Web browser                                |  |
| engine for Qt (codecs)                               |                                          |       |                                            |  |
| ii p11-kit                                           | 0.23.2-5~ubuntu16.04.1                   | amd64 | p11-glue utilities                         |  |
| ii p11-kit-modules:amd64                             | 0.23.2-5~ubuntu16.04.1                   | amd64 | p11-glue                                   |  |
| proxy and trust modules                              |                                          |       |                                            |  |
| ii pandoc                                            | 1.16.0.2~dfsg-1                          | amd64 | general markup converter                   |  |
| ii pandoc-data                                       | 1.16.0.2~dfsg-1                          | all   | general markup converter -                 |  |
| data files                                           |                                          |       |                                            |  |
| ii parted                                            | 3.2-15                                   | amd64 | disk partition manipulator                 |  |
| ii passwd                                            | 1:4.2-3.1ubuntu5                         | amd64 | change and administer                      |  |
| password and group data                              |                                          |       |                                            |  |
| ii patch                                             | 2.7.5-1                                  | amd64 |                                            |  |
| Apply a diff file to an original                     |                                          |       |                                            |  |
| ii patchutils                                        | 0.3.4-1                                  | amd64 | Utilities to work with patches             |  |
| ii pciutils                                          | 1:3.3.1-1.1ubuntu1                       | amd64 | Linux PCI Utilities                        |  |
| ii pcmciautils                                       | 018-8                                    | amd64 | PCMCIA utilities for Linux                 |  |
| 2.6                                                  |                                          |       |                                            |  |
| ii perl                                              | 5.22.1-9                                 | amd64 | Larry Wall's Practical                     |  |
| Extraction and Report Language                       |                                          |       |                                            |  |
| ii perl-base                                         | 5.22.1-9                                 | amd64 | minimal Perl system                        |  |
| ii perl-modules-5.22                                 | 5.22.1-9                                 | all   | Core Perl modules                          |  |
| ii pgdg-keyring                                      | 2014.1                                   | all   | keyring for apt.postgresql.org             |  |
| ii pinentry-gnome3                                   | 0.9.7-3                                  | amd64 | GNOME 3 PIN or pass-                       |  |
| phrase entry dialog for GnuPG                        |                                          |       |                                            |  |
| ii pkg-config                                        | 0.29.1-0ubuntu1                          | amd64 | manage compile and                         |  |
| link flags for libraries                             |                                          |       |                                            |  |
| ii plainbox-provider-checkbox                        | 0.25-1                                   | amd64 | CheckBox provider                          |  |
| for PlainBox                                         |                                          |       |                                            |  |
| ii plainbox-provider-resource-generic                | 0.23-1                                   | amd64 | CheckBox generic                           |  |
| resource jobs provider                               |                                          |       |                                            |  |
| ii plainbox-secure-policy                            | 0.25-1                                   | all   | policykit policy required to               |  |
| use plainbox (secure version)                        |                                          |       |                                            |  |
| ii plymouth                                          | 0.9.2-3ubuntu13.1                        | amd64 | boot animation, logger and I/O multiplexer |  |
| ii plymouth-label                                    | 0.9.2-3ubuntu13.1                        | amd64 | boot animation,                            |  |
| logger and I/O multiplexer - label control           |                                          |       |                                            |  |
| ii plymouth-theme-ubuntu-logo                        | 0.9.2-3ubuntu13.1                        | amd64 | boot                                       |  |
| animation, logger and I/O multiplexer - ubuntu theme |                                          |       |                                            |  |
| ii plymouth-theme-ubuntu-text                        | 0.9.2-3ubuntu13.1                        | amd64 | boot animation,                            |  |
| logger and I/O multiplexer - ubuntu text theme       |                                          |       |                                            |  |
| ii pm-utils                                          | 1.4.1-16                                 | all   | utilities and scripts for power            |  |

|                                        |                     |       |                               |
|----------------------------------------|---------------------|-------|-------------------------------|
| management                             |                     |       |                               |
| ii po-debconf                          | 1.0.19              | all   | tool for managing templates   |
| file translations with gettext         |                     |       |                               |
| ii                                     |                     |       |                               |
| policykit-1                            | 0.105-14.1          | amd64 | framework for managing        |
| administrative policies and privileges |                     |       |                               |
| ii policykit-1-gnome                   | 0.105-2ubuntu2      | amd64 | GNOME                         |
| authentication agent for PolicyKit-1   |                     |       |                               |
| ii policykit-desktop-privileges        | 0.20                | all   | run common desktop            |
| actions without password               |                     |       |                               |
| ii poppler-data                        | 0.4.7-7             | all   | encoding data for the poppler |
| PDF rendering library                  |                     |       |                               |
| ii poppler-utils                       | 0.41.0-0ubuntu1.1   | amd64 | PDF utilities (based on       |
| Poppler)                               |                     |       |                               |
| ii popularity-contest                  | 1.64ubuntu2         | all   | Vote for your favourite       |
| packages automatically                 |                     |       |                               |
| ii postgresql                          | 9.6+178.pgdg16.04+1 | all   | object-relational SQL         |
| database (supported version)           |                     |       |                               |
| ii postgresql-9.5                      | 9.5.5-1.pgdg16.04+1 | amd64 | object-relational             |
| SQL database, version 9.5 server       |                     |       |                               |
| ii postgresql-9.6                      | 9.6.1-2.pgdg16.04+1 | amd64 | object-relational             |
| SQL database, version 9.6 server       |                     |       |                               |
| ii postgresql-client-9.5               | 9.5.5-1.pgdg16.04+1 | amd64 | front-end programs            |
| for PostgreSQL 9.5                     |                     |       |                               |
| ii postgresql-client-9.6               | 9.6.1-2.pgdg16.04+1 | amd64 | front-end programs            |
| for PostgreSQL 9.6                     |                     |       |                               |
| ii postgresql-client-common            | 178.pgdg16.04+1     | all   | manager for                   |
| multiple PostgreSQL client versions    |                     |       |                               |
| ii postgresql-common                   | 178.pgdg16.04+1     | all   | PostgreSQL                    |
| database-cluster manager               |                     |       |                               |
| ii postgresql-contrib                  | 9.6+178.pgdg16.04+1 | all   | additional facilities         |
| for PostgreSQL (supported version)     |                     |       |                               |
| ii postgresql-contrib-9.5              | 9.5.5-1.pgdg16.04+1 | amd64 | additional                    |
| facilities for PostgreSQL              |                     |       |                               |
| ii postgresql-contrib-9.6              | 9.6.1-2.pgdg16.04+1 | amd64 | additional                    |
| facilities for PostgreSQL              |                     |       |                               |
| ii powermgmt-base                      | 1.31+nmu1           | all   | Common utils and              |
| configs for power management           |                     |       |                               |
| ii ppp                                 | 2.4.7-1+2ubuntu1    | amd64 | Point-to-Point                |
| Protocol (PPP) - daemon                |                     |       |                               |
| ii pppconfig                           | 2.3.22              | all   | Text menu based utility for   |
| configuring ppp                        |                     |       |                               |
| ii pppoeconf                           | 1.21ubuntu1         | all   | configures PPPoE/ADSL         |
| connections                            |                     |       |                               |
| ii pptp-linux                          | 1.8.0-1             | amd64 | Point-to-Point Tunneling      |
| Protocol (PPTP) Client                 |                     |       |                               |
| ii preview-latex-style                 | 11.88-1.1ubuntu1    | all   | extraction of elements        |
| from LaTeX documents as graphics       |                     |       |                               |

|                                                                                |                         |       |                                |
|--------------------------------------------------------------------------------|-------------------------|-------|--------------------------------|
| ii printer-driver-brlaser<br>(some) Brother laser printers                     | 3-5~ubuntu1             | amd64 | printer driver for             |
| ii printer-driver-c2esp<br>driver for Kodak ESP AiO color inkjet Series        | 27-2                    | amd64 | printer                        |
| ii printer-driver-foo2zjs<br>for ZjStream-based printers                       | 20151024dfsg0-1ubuntu1  | amd64 | printer driver                 |
| ii printer-driver-foo2zjs-common<br>for ZjStream-based printers - common files | 20151024dfsg0-1ubuntu1  | all   | printer driver                 |
| ii printer-driver-gutenprint<br>CUPS                                           | 5.2.11-1                | amd64 | printer drivers for            |
| ii printer-driver-hpcups<br>and Imaging - CUPS Raster driver (hpcups)          | 3.16.3+repack0-1        | amd64 | HP Linux Printing              |
| ii printer-driver-min12xxw<br>KonicaMinolta PagePro 1[234]xxW                  | 0.0.9-9                 | amd64 | printer driver for             |
| ii printer-driver-pnm2ppa<br>amd64 printer driver for HP-GDI printers          | 1.13+nondbs-0ubuntu5    |       |                                |
| ii printer-driver-postscript-hp<br>PostScript Descriptions                     | 3.16.3+repack0-1        | all   | HP Printers                    |
| ii printer-driver-ptouch<br>touch label printers                               | 1.4-1                   | amd64 | printer driver Brother P-      |
| ii printer-driver-pxljr<br>Color LaserJet 35xx/36xx                            | 1.4+repack0-4           | amd64 | printer driver for HP          |
| ii printer-driver-sag-gdi<br>Aficio SP 1000s/SP 1100s                          | 0.1-4ubuntu1            | all   | printer driver for Ricoh       |
| ii printer-driver-splix<br>Samsung and Xerox SPL2 and SPLc laser printers      | 2.0.0+svn315-4fakesync1 | amd64 | Driver for                     |
| ii procps<br>amd64 /proc file system utilities                                 | 2:3.3.10-4ubuntu2.3     |       |                                |
| ii prosper<br>transparencies                                                   | 1.00.4+cvs.2007.05.01-4 | all   | LaTeX class for writing        |
| ii ps2eps<br>EPS (Encapsulated PostScript) files                               | 1.68+binaryfree-1       | amd64 | convert PostScript to          |
| ii psmisc<br>file system                                                       | 22.21-2.1build1         | amd64 | utilities that use the proc    |
| ii psutils<br>handling utilities                                               | 1.17.dfsg-2             | amd64 | PostScript document            |
| ii pulse<br>PulseAudio sound server                                            | 8.2                     | all   | Pulse Secure Client for Linux  |
| ii pulseaudio<br>PulseAudio sound server                                       | 1:8.0-0ubuntu3.2        | amd64 |                                |
| ii pulseaudio-module-bluetooth<br>module for PulseAudio sound server           | 1:8.0-0ubuntu3.2        | amd64 | Bluetooth                      |
| ii pulseaudio-module-x11<br>PulseAudio sound server                            | 1:8.0-0ubuntu3.2        | amd64 | X11 module for                 |
| ii pulseaudio-utils<br>for the PulseAudio sound server                         | 1:8.0-0ubuntu3.2        | amd64 | Command line tools             |
| ii pyotherside                                                                 | 1.4.0-2                 | all   | transitional dummy package     |
| ii python<br>oriented language (default version)                               | 2.7.11-1                | amd64 | interactive high-level object- |

|                                         |                                    |       |                                                                       |
|-----------------------------------------|------------------------------------|-------|-----------------------------------------------------------------------|
| ii python-alabaster                     | 0.7.7-1                            | all   | Configurable                                                          |
| sidebar-enabled Sphinx theme (Python 2) |                                    |       |                                                                       |
| ii python-all                           | 2.7.11-1                           | amd64 | package depending on all supported Python runtime versions            |
| ii python-all-dev                       | 2.7.11-1                           | amd64 | package depending on all supported Python development packages        |
| ii python-appindicator                  | 12.10.1+15.04.20141110-0ubuntu1    | amd64 | Python bindings for libappindicator                                   |
| ii python-apt                           | 1.1.0~beta1build1                  | amd64 | Python interface to libapt-pkg                                        |
| ii python-apt-common                    | 1.1.0~beta1build1                  | all   | Python interface to libapt-pkg (locales)                              |
| ii python-babel                         | 1.3+dfsg.1-6                       |       | all tools for internationalizing Python applications - Python 2.x     |
| ii python-babel-localedata              | 1.3+dfsg.1-6                       | all   | tools for internationalizing Python applications - locale data files  |
| ii python-cairo                         | 1.8.8-2                            | amd64 | Python bindings for the Cairo vector graphics library                 |
| ii python-chardet                       | 2.3.0-2                            | all   | universal character encoding detector for Python2                     |
| ii python-compizconfig:amd64            | 1:0.9.12.2+16.04.20160823-0ubuntu1 | amd64 | Compizconfig bindings for Python                                      |
| ii python-dev                           | 2.7.11-1                           | amd64 | header files and a static library for Python (default)                |
| ii python-docutils                      | 0.12+dfsg-1                        | all   | text processing system for reStructuredText (implemented in Python 2) |
| ii python-gi                            | 3.20.0-0ubuntu1                    | amd64 | Python 2.x bindings for object-introspection libraries                |
| ii python-gobject                       | 3.20.0-0ubuntu1                    | all   | Python 2.x bindings for GObject - transitional package                |
| ii python-gobject-2                     | 2.28.6-12ubuntu1                   | amd64 | deprecated static Python bindings for the GObject library             |
| ii python-gtk2                          | 2.24.0-4ubuntu1                    | amd64 | Python bindings for the GTK+ widget set                               |
| ii python-jinja2                        | 2.8-1                              | all   | small but fast and easy to use stand-alone template engine            |
| ii python-lldb-3.8                      | 1:3.8-2ubuntu4                     | amd64 | Next generation, high-performance debugger, python lib                |
| ii python-lockfile                      | 1:0.12.2-1                         | all   | file locking library for Python — Python 2 library                    |
| ii python-markupsafe                    | 0.23-2build2                       | amd64 | HTML/XHTML/XML string library for Python                              |
| ii python-minimal                       | 2.7.11-1                           | amd64 | minimal subset of the Python language (default version)               |
| ii python-numpy                         | 1:1.11.0-1ubuntu1                  | amd64 | Numerical Python adds a fast array facility to the Python language    |
| ii python-pil:amd64                     | 3.1.2-0ubuntu1                     |       |                                                                       |

|    |                               |                                               |       |                                                                           |
|----|-------------------------------|-----------------------------------------------|-------|---------------------------------------------------------------------------|
|    | amd64                         | Python Imaging Library (Pillow fork)          |       |                                                                           |
| ii | python-pil.imageTk:amd64      | 3.1.2-0ubuntu1                                | amd64 | Python Imaging Library - ImageTk Module (Pillow fork)                     |
| ii | python-pip                    | 8.1.1-2ubuntu0.4                              | all   | alternative Python package installer                                      |
| ii | python-pip-whl                | 8.1.1-2ubuntu0.4                              | all   | alternative Python package installer                                      |
| ii | python-pkg-resources          | 20.7.0-1                                      | all   | Package Discovery and Resource Access using pkg_resources                 |
| ii | python-ply                    | 3.7-1                                         | all   | Lex and Yacc implementation for Python2                                   |
| ii | python-pygments               | 2.1+dfsg-1                                    |       |                                                                           |
|    | all                           | syntax highlighting package written in Python |       |                                                                           |
| ii | python-roman                  | 2.0.0-2                                       | all   | module for generating/analyzing Roman numerals for Python 2               |
| ii | python-setuptools             | 20.7.0-1                                      | all   | Python Distutils Enhancements                                             |
| ii | python-six                    | 1.10.0-3                                      | all   | Python 2 and 3 compatibility library (Python 2 interface)                 |
| ii | python-sphinx                 | 1.3.6-2ubuntu1                                | all   | documentation generator for Python projects (implemented in Python 2)     |
| ii | python-sphinx-rtd-theme       | 0.1.9-1                                       | all   | sphinx theme from readthedocs.org (Python 2)                              |
| ii | python-talloc                 | 2.1.5-2                                       | amd64 | hierarchical pool based memory allocator - Python bindings                |
| ii | python-tk                     | 2.7.11-2                                      | amd64 | Tkinter - Writing Tk applications with Python                             |
| ii | python-tz                     | 2014.10~dfsg1-0ubuntu2                        | all   | Python version of the Olson timezone database                             |
| ii | python-wheel                  | 0.29.0-1                                      | all   | built-package format for Python                                           |
| ii | python2.7                     | 2.7.12-1ubuntu0~16.04.1                       | amd64 | Interactive high-level object-oriented language (version 2.7)             |
| ii | python2.7-dev                 | 2.7.12-1ubuntu0~16.04.1                       | amd64 | Header files and a static library for Python (v2.7)                       |
| ii | python2.7-minimal             | 2.7.12-1ubuntu0~16.04.1                       | amd64 | Minimal subset of the Python language (version 2.7)                       |
| ii | python3                       | 3.5.1-3                                       | amd64 | interactive high-level object-oriented language (default python3 version) |
| ii | python3-apport                | 2.20.1-0ubuntu2.5                             | all   | Python 3 library for Apport crash report handling                         |
| ii | python3-apt                   | 1.1.0~beta1build1                             | amd64 | Python 3 interface to libapt-pkg                                          |
| ii | python3-aptdaemon             | 1.1.1+bzr982-0ubuntu14                        | all   | Python 3 module for the server and client of aptdaemon                    |
| ii | python3-aptdaemon.gtk3widgets | 1.1.1+bzr982-0ubuntu14                        | all   |                                                                           |

Python 3 GTK+ 3 widgets to run an aptdaemon client

|                                                          |                                                                  |       |                                               |
|----------------------------------------------------------|------------------------------------------------------------------|-------|-----------------------------------------------|
| ii python3-aptdaemon.pkcompat                            | 1.1.1+bzr982-0ubuntu14                                           | all   | PackageKit                                    |
| compatibility for AptDaemon                              |                                                                  |       |                                               |
| ii python3-blinker                                       | 1.3.dfsg2-1build1                                                | all   | fast, simple object-to-                       |
| object and broadcast signaling library                   |                                                                  |       |                                               |
| ii python3-brlapi                                        | 5.3.1-2ubuntu2.1                                                 | amd64 | Braille display access                        |
| via BRLTTY - Python3 bindings                            |                                                                  |       |                                               |
| ii python3-bs4                                           | 4.4.1-1                                                          | all   | error-tolerant HTML parser                    |
| for Python 3                                             |                                                                  |       |                                               |
| ii python3-cairo                                         | 1.10.0+dfsg-5build1                                              | amd64 | Python 3 bindings for                         |
| the Cairo vector graphics library                        |                                                                  |       |                                               |
| ii python3-cffi-backend                                  | 1.5.2-1ubuntu1                                                   |       |                                               |
| amd64                                                    | Foreign Function Interface for Python 3 calling C code - runtime |       |                                               |
| ii python3-chardet                                       | 2.3.0-2                                                          | all   | universal character encoding                  |
| detector for Python3                                     |                                                                  |       |                                               |
| ii python3-checkbox-support                              | 0.22-1                                                           | all   | collection of Python                          |
| modules used by PlainBox providers                       |                                                                  |       |                                               |
| ii python3-commandnotfound                               | 0.3ubuntu16.04.2                                                 | all   | Python 3 bindings                             |
| for command-not-found.                                   |                                                                  |       |                                               |
| ii python3-cryptography                                  | 1.2.3-1ubuntu0.1                                                 | amd64 | Python library                                |
| exposing cryptographic recipes and primitives (Python 3) |                                                                  |       |                                               |
| ii python3-cups                                          | 1.9.73-0ubuntu2                                                  | amd64 | Python3 bindings for                          |
| CUPS                                                     |                                                                  |       |                                               |
| ii python3-cupshelpers                                   | 1.5.7+20160212-0ubuntu2                                          | all   | Python modules for printer configuration with |
| CUPS                                                     |                                                                  |       |                                               |
| ii python3-dbus                                          | 1.2.0-3                                                          | amd64 | simple interprocess                           |
| messaging system (Python 3 interface)                    |                                                                  |       |                                               |
| ii python3-debian                                        | 0.1.27ubuntu2                                                    | all   | Python 3 modules to                           |
| work with Debian-related data formats                    |                                                                  |       |                                               |
| ii python3-defer                                         | 1.0.6-2build1                                                    | all   | Small framework for                           |
| asynchronous programming (Python 3)                      |                                                                  |       |                                               |
| ii python3-distupgrade                                   | 1:16.04.20                                                       | all   | manage release upgrades                       |
| ii python3-feedparser                                    | 5.1.3-3build1                                                    | all   | Universal Feed Parser for                     |
| Python 3                                                 |                                                                  |       |                                               |
| ii python3-gdbm:amd64                                    | 3.5.1-1                                                          | amd64 | GNU dbm database support for Python 3.x       |
| ii python3-gi                                            | 3.20.0-0ubuntu1                                                  | amd64 | Python 3 bindings for                         |
| gobject-introspection libraries                          |                                                                  |       |                                               |
| ii python3-gi-cairo                                      | 3.20.0-0ubuntu1                                                  | amd64 | Python 3 Cairo                                |
| bindings for the GObject library                         |                                                                  |       |                                               |
| ii python3-guacamole                                     | 0.9.2-1                                                          | all   | framework for creating                        |
| command line applications (Python 3)                     |                                                                  |       |                                               |
| ii python3-html5lib                                      | 0.999-4                                                          | all   | HTML parser/tokenizer                         |
| based on the WHATWG HTML5 specification (Python 3)       |                                                                  |       |                                               |
| ii python3-httplib2                                      | 0.9.1+dfsg-1                                                     | all   | comprehensive                                 |
| HTTP client library written for Python3                  |                                                                  |       |                                               |
| ii python3-idna                                          | 2.0-3                                                            | all   | Python IDNA2008 (RFC                          |

|                                                               |                        |       |                                       |  |
|---------------------------------------------------------------|------------------------|-------|---------------------------------------|--|
| 5891) handling (Python 3)                                     |                        |       |                                       |  |
| ii python3-jinja2                                             | 2.8-1                  | all   | small but fast and easy to use        |  |
| stand-alone template engine                                   |                        |       |                                       |  |
| ii python3-jwt                                                | 1.3.0-1                | all   | Python 3 implementation of            |  |
| JSON Web Token                                                |                        |       |                                       |  |
| ii python3-louis                                              | 2.6.4-2                | all   | Python bindings for liblouis          |  |
| ii python3-lxml                                               | 3.5.0-1build1          | amd64 | pythonic binding for the              |  |
| libxml2 and libxslt libraries                                 |                        |       |                                       |  |
| ii python3-mako                                               | 1.0.3+ds1-1ubuntu1     |       |                                       |  |
| all fast and lightweight templating for the Python 3 platform |                        |       |                                       |  |
| ii python3-markupsafe                                         | 0.23-2build2           | amd64 |                                       |  |
| HTML/XHTML/XML string library for Python 3                    |                        |       |                                       |  |
| ii python3-minimal                                            | 3.5.1-3                | amd64 | minimal subset of the                 |  |
| Python language (default python3 version)                     |                        |       |                                       |  |
| ii python3-oauthlib                                           | 1.0.3-1                | all   | generic, spec-compliant               |  |
| implementation of OAuth for Python3                           |                        |       |                                       |  |
| ii python3-padme                                              | 1.1.1-2                | all   | mostly transparent proxy              |  |
| class for Python 3                                            |                        |       |                                       |  |
| ii python3-pexpect                                            | 4.0.1-1                | all   | Python 3 module for                   |  |
| automating interactive applications                           |                        |       |                                       |  |
| ii python3-pil:amd64                                          | 3.1.2-0ubuntu1         | amd64 | Python Imaging Library (Python3)      |  |
|                                                               |                        |       |                                       |  |
| ii python3-pkg-resources                                      | 20.7.0-1               | all   | Package Discovery and                 |  |
| Resource Access using pkg_resources                           |                        |       |                                       |  |
| ii python3-plainbox                                           | 0.25-1                 | all   | toolkit for software and              |  |
| hardware testing (python3 module)                             |                        |       |                                       |  |
| ii python3-problem-report                                     | 2.20.1-0ubuntu2.5      | all   | Python 3 library to                   |  |
| handle problem reports                                        |                        |       |                                       |  |
| ii python3-ptyprocess                                         | 0.5-1                  | all   | Run a subprocess in a                 |  |
| pseudo terminal from Python 3                                 |                        |       |                                       |  |
| ii python3-pyasn1                                             | 0.1.9-1                | all   | ASN.1 library for Python              |  |
| (Python 3 module)                                             |                        |       |                                       |  |
| ii python3-pyatspi                                            | 2.18.0+dfsg-3          | all   | Assistive Technology Service Provider |  |
| Interface - Python3 bindings                                  |                        |       |                                       |  |
| ii python3-pycurl                                             | 7.43.0-1ubuntu1        | amd64 | Python bindings to                    |  |
| libcurl (Python 3)                                            |                        |       |                                       |  |
| ii python3-pyparsing                                          | 2.0.3+dfsg1-1ubuntu0.1 | all   | Python parsing                        |  |
| module, Python3 package                                       |                        |       |                                       |  |
| ii python3-renderpm:amd64                                     | 3.3.0-1                | amd64 | python low level                      |  |
| render interface                                              |                        |       |                                       |  |
| ii python3-reportlab                                          | 3.3.0-1                | all   | ReportLab library to create           |  |
| PDF documents using Python3                                   |                        |       |                                       |  |
| ii python3-reportlab-accel:amd64                              | 3.3.0-1                | amd64 | C coded extension                     |  |
| accelerator for the ReportLab                                 |                        |       |                                       |  |
| Toolkit                                                       |                        |       |                                       |  |
| ii python3-requests                                           | 2.9.1-3                | all   | elegant and simple HTTP               |  |
| library for Python3, built for human beings                   |                        |       |                                       |  |

|                                                                                           |                                  |       |                              |
|-------------------------------------------------------------------------------------------|----------------------------------|-------|------------------------------|
| ii python3-six<br>library (Python 3 interface)                                            | 1.10.0-3                         | all   | Python 2 and 3 compatibility |
| ii python3-software-properties<br>that you install software from                          | 0.96.20.5                        | all   | manage the repositories      |
| ii python3-speechd<br>Speech Dispatcher                                                   | 0.8.3-1ubuntu3                   | all   | Python interface to          |
| ii python3-systemd<br>systemd                                                             | 231-2build1                      | amd64 | Python 3 bindings for        |
| ii python3-uno<br>Python-UNO bridge                                                       | 1:5.1.4-0ubuntu1                 | amd64 |                              |
| ii python3-update-manager<br>update-manager                                               | 1:16.04.5                        | all   | python 3.x module for        |
| ii python3-urllib3<br>thread-safe connection pooling for Python3                          | 1.13.1-2ubuntu0.16.04.1          | all   | HTTP library with            |
| ii python3-xdg<br>freedesktop.org standards                                               | 0.25-4                           | all   | Python 3 library to access   |
| ii python3-xkit<br>of xorg.conf files (Python 3)                                          | 0.5.0ubuntu2                     | all   | library for the manipulation |
| ii python3-xlsxwriter<br>creating Excel XLSX files                                        | 0.7.3-1                          | all   | Python 3 module for          |
| ii python3.5<br>amd64 Interactive high-level object-oriented language (version 3.5)       | 3.5.2-2ubuntu0~16.04.1           |       |                              |
| ii python3.5-minimal<br>of the Python language (version 3.5)                              | 3.5.2-2ubuntu0~16.04.1           | amd64 | Minimal subset               |
| ii qdbus                                                                                  | 4:4.8.7+dfsg-5ubuntu2            | amd64 | Qt 4 D-Bus tool              |
| ii qml-module-io-thp-pyotherside:amd64<br>Python 3 Bindings for Qt 5 (QML plugin)         | 1.4.0-2                          | amd64 | asynchronous                 |
| ii qml-module-qt-labs-folderlistmodel:amd64<br>folderlistmodel QML module                 | 5.5.1-2ubuntu6                   | amd64 | Qt 5                         |
| ii qml-module-qt-labs-settings:amd64<br>QML module                                        | 5.5.1-2ubuntu6                   | amd64 | Qt 5 settings                |
| ii qml-module-qtfeedback:amd64<br>Feedback<br>QML module                                  | 5.0~git20130529-0ubuntu13        | amd64 | Qt 5                         |
| ii qml-module-qtgraphicaleffects:amd64<br>Graphical Effects module                        | 5.5.1-1ubuntu1                   | amd64 | Qt 5                         |
| ii qml-module-qtquick-layouts:amd64<br>Layouts QML module                                 | 5.5.1-1ubuntu1                   | amd64 | Qt 5 Quick                   |
| ii qml-module-qtquick-window2:amd64<br>window 2 QML module                                | 5.5.1-2ubuntu6                   | amd64 | Qt 5                         |
| ii qml-module-qtquick2:amd64<br>2 QML module                                              | 5.5.1-2ubuntu6                   | amd64 | Qt 5 Qt Quick                |
| ii qml-module-qttest:amd64<br>module                                                      | 5.5.1-2ubuntu6                   | amd64 | Qt 5 test QML                |
| ii qml-module-ubuntu-components:amd64<br>Qt Components for Ubuntu - Components QML plugin | 1.3.1918+16.04.20160404-0ubuntu1 | amd64 |                              |
| ii qml-module-ubuntu-layouts:amd64                                                        |                                  |       |                              |

|                                                             |                                      |                                                 |                                                          |
|-------------------------------------------------------------|--------------------------------------|-------------------------------------------------|----------------------------------------------------------|
| 1.3.1918+16.04.20160404-0ubuntu1                            | amd64                                | Qt Components for Ubuntu - Layouts QML plugin   |                                                          |
| ii qml-module-ubuntu-onlineaccounts:amd64                   | 0.6+16.04.20151106-0ubuntu1          | amd64                                           |                                                          |
| Expose the Online Accounts API to QML applications          |                                      |                                                 |                                                          |
| ii qml-module-ubuntu-performancemetrics:amd64               | 1.3.1918+16.04.20160404-0ubuntu1     | amd64                                           |                                                          |
| Qt Components for Ubuntu - PerformanceMetrics QML plugin    |                                      |                                                 |                                                          |
| ii qml-module-ubuntu-test:amd64                             | 1.3.1918+16.04.20160404-0ubuntu1     | amd64                                           | Qt                                                       |
| Components for Ubuntu - Test QML plugin                     |                                      |                                                 |                                                          |
| ii qml-module-ubuntu-web:amd64                              | 0.23+16.04.20161028-0ubuntu2         | amd64                                           |                                                          |
| Ubuntu web QML module                                       |                                      |                                                 |                                                          |
| ii qmlscene                                                 | 5.5.1-2ubuntu6                       | amd64                                           | Qt 5 QML scene viewer                                    |
| ii qpdf                                                     | 6.0.0-2                              |                                                 |                                                          |
|                                                             | amd64                                | tools for transforming and inspecting PDF files |                                                          |
| ii qt-at-spi:amd64                                          | 0.4.0-3                              | amd64                                           | at-spi accessibility plugin for Qt                       |
| ii qt-at-spi:i386                                           | 0.4.0-3                              | i386                                            | at-spi accessibility plugin for Qt                       |
| ii qtchooser                                                | 52-gae5eeef-2build1~gcc5.2           | amd64                                           | Wrapper to select between Qt development binary versions |
| ii qtcore4-110n                                             | 4:4.8.7+dfsg-5ubuntu2                | all                                             | Qt 4 core module translations                            |
| ii qtdeclarative5-accounts-plugin:amd64                     | 0.6+16.04.20151106-0ubuntu1          | amd64                                           |                                                          |
| transitional dummy package for Online Accounts QML clients  |                                      |                                                 |                                                          |
| ii qtdeclarative5-dev-tools                                 | 5.5.1-2ubuntu6                       |                                                 |                                                          |
|                                                             | amd64                                | Qt 5 declarative development programs           |                                                          |
| ii qtdeclarative5-qtquick2-plugin:amd64                     | 5.5.1-2ubuntu6                       | amd64                                           | transitional                                             |
| dummy package Qt 5 Qt Quick 2 QML module                    |                                      |                                                 |                                                          |
| ii qtdeclarative5-test-plugin:amd64                         | 5.5.1-2ubuntu6                       | amd64                                           | transitional                                             |
| dummy package for Qt 5 test QML module                      |                                      |                                                 |                                                          |
| ii qtdeclarative5-ubuntu-ui-toolkit-plugin                  | 1.3.1918+16.04.20160404-0ubuntu1     | amd64                                           |                                                          |
| Transitional dummy package for Ubuntu UI Toolkit QML plugin |                                      |                                                 |                                                          |
| ii qtdeclarative5-unity-action-plugin:amd64                 | 1.1.0+14.04.20140304-0ubuntu2~gcc5.1 | amd64                                           |                                                          |
| Unity Action QML Components                                 |                                      |                                                 |                                                          |
| ii qttranslations5-110n                                     | 5.5.1-2build1                        | all                                             | translations for Qt 5                                    |
| ii rake                                                     | 10.5.0-2                             |                                                 |                                                          |
|                                                             | all                                  | ruby make-like utility                          |                                                          |
| ii readline-common                                          | 6.3-8ubuntu2                         | all                                             | GNU readline and history libraries, common files         |
| ii remmina                                                  | 1.1.2-3ubuntu1                       | amd64                                           | remote desktop client for GNOME desktop environment      |
| ii remmina-common                                           | 1.1.2-3ubuntu1                       | all                                             | common files for remmina remote desktop client           |
| ii remmina-plugin-rdp                                       | 1.1.2-3ubuntu1                       | amd64                                           | RDP plugin for remmina remote desktop client             |
| ii remmina-plugin-vnc                                       | 1.1.2-3ubuntu1                       | amd64                                           | VNC plugin for remmina remote desktop client             |
| ii rename                                                   | 0.20-4                               |                                                 |                                                          |
|                                                             | all                                  | Perl extension for renaming multiple files      |                                                          |
| ii resolvconf                                               | 1.78ubuntu2                          | all                                             | name server information                                  |

|                               |                                |       |                                                                          |
|-------------------------------|--------------------------------|-------|--------------------------------------------------------------------------|
| handler                       |                                |       |                                                                          |
| ii rkill                      | 0.5-1ubuntu3                   | amd64 | tool for enabling and disabling wireless devices                         |
| ii rhythmbox                  | 3.3-1ubuntu7                   | amd64 | music player and organizer for GNOME                                     |
| ii rhythmbox-data             | 3.3-1ubuntu7                   | all   | data files for rhythmbox                                                 |
| ii rhythmbox-plugin-zeitgeist | 3.3-1ubuntu7                   | all   | zeitgeist plugin for rhythmbox music player                              |
| ii rhythmbox-plugins          | 3.3-1ubuntu7                   | amd64 | plugins for rhythmbox music player                                       |
| ii rsync                      | 3.1.1-3ubuntu1                 | amd64 | fast, versatile, remote (and local) file-copying tool                    |
| ii rsyslog                    | 8.16.0-1ubuntu3                | amd64 | reliable system and kernel logging daemon                                |
| ii rtkit                      | 0.11-4                         | amd64 | Realtime Policy and Watchdog Daemon                                      |
| ii ruby                       | 1:2.3.0+1                      | all   | Interpreter of object-oriented scripting language Ruby (default version) |
| ii ruby-did-you-mean          | 1.0.0-2                        | all   | smart error messages for Ruby > 2.3                                      |
| ii ruby-minitest              | 5.8.4-2                        |       |                                                                          |
| all                           |                                |       | Ruby test tools supporting TDD, BDD, mocking, and benchmarking           |
| ii ruby-net-telnet            | 0.1.1-2                        | all   | telnet client library                                                    |
| ii ruby-power-assert          | 0.2.7-1                        | all   | library showing values of variables and method calls in an expression    |
| ii ruby-test-unit             | 3.1.7-2                        | all   | unit testing framework for Ruby                                          |
| ii ruby2.3                    | 2.3.1-2~16.04                  | amd64 | Interpreter of object-oriented scripting language Ruby                   |
| ii rubygems-integration       | 1.10                           | all   | integration of Debian Ruby packages with Rubygems                        |
| ii s-nail                     | 14.8.6-1                       |       |                                                                          |
|                               | amd64                          |       | feature-rich BSD mail(1)                                                 |
| ii samba-libs:amd64           | 2:4.3.11+dfsg-0ubuntu0.16.04.3 | amd64 | Samba core libraries                                                     |
| ii sane-utils                 | 1.0.26-git20160712-xenial0     | amd64 | API library for scanners -- utilities                                    |
| ii sbsigntool                 | 0.6-0ubuntu10.1                | amd64 | utility for signing and verifying files for UEFI Secure Boot             |
| ii seahorse                   | 3.18.0-2ubuntu1                | amd64 | GNOME front end for GnuPG                                                |
| ii secureboot-db              | 1.1                            | amd64 | Secure Boot updates for DB and DBX                                       |
| ii sed                        | 4.2.2-7                        | amd64 | The GNU sed stream editor                                                |
| ii sensible-utils             | 0.0.9                          | all   | Utilities for sensible alternative selection                             |
| ii session-migration          | 0.2.3                          | amd64 | Tool to migrate in user                                                  |

|                                                                      |                                        |       |                                     |  |
|----------------------------------------------------------------------|----------------------------------------|-------|-------------------------------------|--|
| session settings                                                     |                                        |       |                                     |  |
| ii session-shortcuts<br>logout, and reboot from dash                 | 1.2                                    | all   | Allows you to shutdown,             |  |
| ii sessioninstaller<br>using PackageKit's session DBus API           | 0.20+bzr150-0ubuntu4.1                 | all   | APT based installer                 |  |
| ii sgml-base<br>and SGML catalog file support                        | 1.26+nmu4ubuntu1                       | all   | SGML infrastructure                 |  |
| ii shared-mime-info<br>shared MIME database and spec                 | 1.5-2ubuntu0.1                         | amd64 | FreeDesktop.org                     |  |
| ii shim<br>signed boot loaders under Secure Boot                     | 0.8-0ubuntu2                           | amd64 | boot loader to chain-load           |  |
| ii shim-signed<br>chain-loading bootloader (Microsoft-signed binary) | 1.19~16.04.1+0.8-0ubuntu2              | amd64 | Secure Boot                         |  |
| ii shotwell<br>organizer                                             | 0.22.0+git20160108.r1.f2fb1f7-0ubuntu1 | amd64 | digital photo                       |  |
| ii shotwell-common<br>organizer - common files                       | 0.22.0+git20160108.r1.f2fb1f7-0ubuntu1 | all   | digital photo                       |  |
| ii signon-keyring-extension<br>keyring extension for signond         | 0.6+14.10.20140513-0ubuntu2            | amd64 | GNOME                               |  |
| ii signon-plugin-oauth2<br>Single Signon oauth2 plugin               | 0.23+16.04.20151209-0ubuntu1           | amd64 |                                     |  |
| ii signon-plugin-password<br>Password plugin for Single Sign On      | 8.58+16.04.20151106-0ubuntu1           | amd64 | Plain                               |  |
| ii signon-ui<br>package for signon-ui                                | 0.17+16.04.20151125-0ubuntu1           | all   | Dummy transitional                  |  |
| ii signon-ui-service<br>file for signon-ui                           | 0.17+16.04.20151125-0ubuntu1           | all   | D-Bus service                       |  |
| ii signon-ui-x11<br>UI                                               | 0.17+16.04.20151125-0ubuntu1           | amd64 | Single Sign-on                      |  |
| ii signond<br>framework                                              | 8.58+16.04.20151106-0ubuntu1           | amd64 | Single Sign On                      |  |
| ii simple-scan<br>Utility                                            | 3.20.0-0ubuntu1                        | amd64 | Simple Scanning                     |  |
| ii skype:i386<br>4.3.0.37-1                                          | i386                                   |       | Wherever you are, wherever they are |  |
| ii slack-desktop                                                     | 2.4.2                                  | amd64 | Slack Desktop                       |  |
| ii smartmontools<br>storage systems using S.M.A.R.T.                 | 6.4+svn4214-1                          | amd64 | control and monitor                 |  |
| ii snap-confine<br>apply confinement for snappy apps                 | 2.20.1ubuntu1                          | amd64 | Support executable to               |  |
| ii snapd<br>Ubuntu Core Snappy.                                      | 2.20.1ubuntu1                          | amd64 | Tool to interact with               |  |
| ii snapd-login-service<br>non-root access to snapd                   | 1.2-0ubuntu1.1~xenial                  | amd64 | Daemon to allow                     |  |
| ii sni-qt:amd64<br>0.2.7+15.10.20150729-0ubuntu1                     | amd64                                  |       | indicator support for Qt            |  |
| ii sni-qt:i386<br>for Qt                                             | 0.2.7+15.10.20150729-0ubuntu1          | i386  | indicator support                   |  |

|    |                                       |                               |       |                                                                 |
|----|---------------------------------------|-------------------------------|-------|-----------------------------------------------------------------|
| ii | software-properties-common            | 0.96.20.5                     | all   | manage the repositories that you install software from (common) |
| ii | software-properties-gtk               | 0.96.20.5                     | all   | manage the repositories that you install software from (gtk)    |
| ii | sound-theme-freedesktop               | 0.8-1                         | all   | freedesktop.org sound theme                                     |
| ii | speech-dispatcher                     | 0.8.3-1ubuntu3                | amd64 | Common interface to speech synthesizers                         |
| ii | speech-dispatcher-audio-plugins:amd64 | 0.8.3-1ubuntu3                | amd64 | Speech Dispatcher: Audio output plugins                         |
| ii | sphinx-common                         | 1.3.6-2ubuntu1                | all   | documentation generator for Python projects - common data       |
| ii | sphinx-doc                            | 1.3.6-2ubuntu1                | all   | documentation generator for Python projects - documentation     |
| ii | sphinx-rtd-theme-common               | 0.1.9-1                       | all   | sphinx theme from readthedocs.org (common files)                |
| ii | squashfs-tools                        | 1:4.3-3ubuntu2                | amd64 | Tool to create and append to squashfs filesystems               |
| ii | ssl-cert                              | 1.0.37                        | all   | simple debconf wrapper for OpenSSL                              |
| ii | steam-launcher                        | 1.0.0.54                      | all   | Launcher for the Steam software distribution service            |
| ii | strace                                | 4.11-1ubuntu3                 | amd64 | System call tracer                                              |
| ii | sudo                                  | 1.8.16-0ubuntu1.2             | amd64 | Provide limited super user privileges to specific users         |
| ii | suru-icon-theme                       | 14.04+16.04.20161024-0ubuntu1 | all   | Ubuntu Suru Icon theme                                          |
| ii | swig                                  | 3.0.8-0ubuntu3                | amd64 | Generate scripting interfaces to C/C++ code                     |
| ii | swig3.0                               | 3.0.8-0ubuntu3                | amd64 | Generate scripting interfaces to C/C++ code                     |
| ii | syslinux                              | 3:6.03+dfsg-11ubuntu1         | amd64 | collection of bootloaders (DOS FAT and NTFS bootloader)         |
| ii | syslinux-common                       | 3:6.03+dfsg-11ubuntu1         | all   | collection of bootloaders (common)                              |
| ii | syslinux-legacy                       | 2:3.63+dfsg-2ubuntu8          | amd64 | Bootloader for Linux/i386 using MS-DOS floppies                 |
| ii | sysstat                               | 11.2.0-1ubuntu0.1             | amd64 | system performance tools for Linux                              |
| ii | system-config-printer-common          | 1.5.7+20160212-0ubuntu2       | all   | Printer configuration GUI                                       |
| ii | system-config-printer-gnome           | 1.5.7+20160212-0ubuntu2       | all   | Printer configuration GUI                                       |
| ii | system-config-printer-udev            | 1.5.7+20160212-0ubuntu2       | amd64 | Printer auto-configuration facility based on udev               |
| ii | systemd                               | 229-4ubuntu16                 | amd64 | system and service manager                                      |
| ii | systemd-sysv                          | 229-4ubuntu16                 | amd64 | system and service                                              |

|                                                   |                       |  |       |                                        |
|---------------------------------------------------|-----------------------|--|-------|----------------------------------------|
| manager - SysV links                              |                       |  |       |                                        |
| ii sysv-rc                                        | 2.88dsf-59.3ubuntu2   |  | all   | System-V-like runlevel                 |
| change mechanism                                  |                       |  |       |                                        |
| ii sysvinit-utils                                 | 2.88dsf-59.3ubuntu2   |  | amd64 | System-V-like utilities                |
| ii t1utils                                        | 1.39-2                |  | amd64 | Collection of simple Type 1            |
| font manipulation programs                        |                       |  |       |                                        |
| ii tar                                            | 1.28-2.1ubuntu0.1     |  | amd64 | GNU version of                         |
| the tar archiving utility                         |                       |  |       |                                        |
| ii tcl                                            | 8.6.0+9               |  | amd64 | Tool Command Language                  |
| (default version) - shell                         |                       |  |       |                                        |
| ii tcl8.6                                         | 8.6.5+dfsg-2          |  | amd64 | Tcl (the Tool Command                  |
| Language) v8.6 - shell                            |                       |  |       |                                        |
| ii tcpd                                           | 7.6.q-25              |  | amd64 | Wietse Venema's TCP                    |
| wrapper utilities                                 |                       |  |       |                                        |
| ii tcpdump                                        | 4.7.4-1ubuntu1        |  | amd64 | command-line network                   |
| traffic analyzer                                  |                       |  |       |                                        |
| ii teamviewer:i386                                | 11.0.57095            |  | i386  | TeamViewer (Remote                     |
| Control Application)                              |                       |  |       |                                        |
| ii telnet                                         | 0.17-40               |  | amd64 | basic telnet client                    |
| ii tex-common                                     |                       |  |       |                                        |
|                                                   | 6.04                  |  | all   | common infrastructure for building and |
| installing TeX                                    |                       |  |       |                                        |
| ii tex-gyre                                       | 20150923-1            |  | all   | scalable PostScript and                |
| OpenType fonts based on URW Fonts                 |                       |  |       |                                        |
| ii texlive                                        | 2015.20160320-1       |  | all   | TeX Live: A decent                     |
| selection of the TeX Live packages                |                       |  |       |                                        |
| ii texlive-base                                   | 2015.20160320-1       |  | all   | TeX Live: Essential                    |
| programs and files                                |                       |  |       |                                        |
| ii texlive-binaries                               | 2015.20160222.37495-1 |  | amd64 | Binaries for TeX                       |
| Live                                              |                       |  |       |                                        |
| ii texlive-extra-utils                            | 2015.20160320-1       |  | all   | TeX Live: TeX auxiliary                |
| programs                                          |                       |  |       |                                        |
| ii texlive-font-utils                             |                       |  |       |                                        |
|                                                   | 2015.20160320-1       |  | all   | TeX Live: Graphics and font utilities  |
| ii texlive-fonts-recommended                      | 2015.20160320-1       |  | all   | TeX Live:                              |
| Recommended fonts                                 |                       |  |       |                                        |
| ii texlive-fonts-recommended-doc                  | 2015.20160320-1       |  | all   | TeX Live:                              |
| Documentation files for texlive-fonts-recommended |                       |  |       |                                        |
| ii texlive-generic-recommended                    | 2015.20160320-1       |  | all   | TeX Live:                              |
| Generic recommended packages                      |                       |  |       |                                        |
| ii texlive-lang-english                           | 2015.20160223-1       |  | all   | TeX Live: US and UK                    |
| English                                           |                       |  |       |                                        |
| ii texlive-lang-italian                           | 2015.20160223-1       |  | all   | TeX Live: Italian                      |
| ii texlive-latex-base                             |                       |  |       |                                        |
|                                                   | 2015.20160320-1       |  | all   | TeX Live: LaTeX fundamental packages   |
| ii texlive-latex-base-doc                         | 2015.20160320-1       |  | all   | TeX Live:                              |
| Documentation files for texlive-latex-base        |                       |  |       |                                        |
| ii texlive-latex-extra                            | 2015.20160320-1       |  | all   | TeX Live: LaTeX                        |

|                                                   |                                  |                             |       |                                                             |
|---------------------------------------------------|----------------------------------|-----------------------------|-------|-------------------------------------------------------------|
| additional packages                               |                                  |                             |       |                                                             |
| ii texlive-latex-extra-doc                        | 2015.20160320-1                  |                             | all   | TeX Live:                                                   |
| Documentation files for texlive-latex-extra       |                                  |                             |       |                                                             |
| ii texlive-latex-recommended                      | 2015.20160320-1                  |                             | all   | TeX Live: LaTeX                                             |
| recommended packages                              |                                  |                             |       |                                                             |
| ii texlive-latex-recommended-doc                  | 2015.20160320-1                  |                             | all   | TeX Live:                                                   |
| Documentation files for texlive-latex-recommended |                                  |                             |       |                                                             |
| ii texlive-pictures                               | 2015.20160320-1                  |                             | all   | TeX Live: Graphics, pictures, diagrams                      |
| ii texlive-pictures-doc                           | 2015.20160320-1                  |                             | all   | TeX Live:                                                   |
| Documentation files for texlive-pictures          |                                  |                             |       |                                                             |
| ii texlive-pstricks                               | 2015.20160320-1                  |                             | all   | TeX Live: PSTricks                                          |
| ii texlive-pstricks-doc                           | 2015.20160320-1                  |                             | all   | TeX Live:                                                   |
| Documentation files for texlive-pstricks          |                                  |                             |       |                                                             |
| ii texlive-science                                | 2015.20160320-1                  |                             | all   | TeX Live: Natural and computer sciences                     |
| ii texlive-science-doc                            | 2015.20160320-1                  |                             | all   | TeX Live:                                                   |
| Documentation files for texlive-science           |                                  |                             |       |                                                             |
| ii texmaker                                       |                                  |                             |       |                                                             |
| 4.4.1-1.1                                         | amd64                            | cross-platform LaTeX editor |       |                                                             |
| ii texmaker-data                                  | 4.4.1-1.1                        |                             | all   | Texmaker LaTeX editor -- arch-independent files             |
| ii thermald                                       | 1.5-2ubuntu2                     |                             | amd64 | Thermal monitoring and controlling daemon                   |
| ii thunderbird                                    | 1:45.7.0+build1-0ubuntu0.16.04.1 |                             | amd64 | Email, RSS and newsgroup client with integrated spam filter |
| ii thunderbird-gnome-support                      | 1:45.7.0+build1-0ubuntu0.16.04.1 |                             | amd64 | Email, RSS and newsgroup client - GNOME support             |
| ii thunderbird-locale-en                          | 1:45.7.0+build1-0ubuntu0.16.04.1 |                             | amd64 | English language pack for Thunderbird                       |
| ii thunderbird-locale-en-gb                       | 1:45.7.0+build1-0ubuntu0.16.04.1 | all                         |       | Transitional English language pack for Thunderbird          |
| ii thunderbird-locale-en-us                       | 1:45.7.0+build1-0ubuntu0.16.04.1 |                             | all   | Transitional English language pack for Thunderbird          |
| ii thunderbird-locale-it                          | 1:45.7.0+build1-0ubuntu0.16.04.1 |                             | amd64 | Italian language pack for Thunderbird                       |
| ii time                                           | 1.7-25.1                         |                             | amd64 | GNU time program for measuring CPU resource usage           |
| ii tipa                                           | 2:1.3-20                         |                             | all   | system for processing phonetic symbols in LaTeX             |
| ii tk                                             | 8.6.0+9                          |                             | amd64 | Toolkit for Tcl and X11 (default version) - windowing shell |
| ii tk8.6                                          | 8.6.5-1                          |                             | amd64 | Tk toolkit for Tcl and X11 v8.6 - windowing shell           |
| ii tk8.6-blts2.5                                  | 2.5.3+dfsg-3                     |                             | amd64 | graphics extension library for Tcl/Tk - library             |
| ii tlp                                            | 0.8-1                            |                             | all   | Save battery power on laptops                               |

|                                                                     |                                 |       |                                               |
|---------------------------------------------------------------------|---------------------------------|-------|-----------------------------------------------|
| ii tlp-rdw                                                          | 0.8-1                           | all   | Radio device wizard                           |
| ii toshset<br>laptop hardware interface                             | 1.76-4                          | amd64 | Access much of the Toshiba                    |
| ii totem<br>the GNOME desktop based on GStreamer                    | 3.18.1-1ubuntu4                 | amd64 | Simple media player for                       |
| ii totem-common                                                     | 3.18.1-1ubuntu4                 | all   | Data files for the Totem media player         |
| ii totem-plugins<br>media player                                    | 3.18.1-1ubuntu4                 | amd64 | Plugins for the Totem                         |
| ii traceroute<br>packets over an IPv4/IPv6 network                  | 1:2.0.21-1                      | amd64 | Traces the route taken by                     |
| ii transmission-common<br>BitTorrent client (common files)          | 2.84-3ubuntu3                   | all   | lightweight                                   |
| ii transmission-gtk<br>client (GTK+ interface)                      | 2.84-3ubuntu3                   | amd64 | lightweight BitTorrent                        |
| ii tree<br>tree, in color                                           | 1.7.0-3                         | amd64 | displays an indented directory                |
| ii ttf-ancient-fonts-symbola<br>Unicode 7.0 (transitional package)  | 2.59-1                          | all   | symbolic font providing emoji characters from |
| ii ttf-bitstream-vera<br>free TrueType fonts                        | 1.10-8                          | all   | The Bitstream Vera family of                  |
| ii ttf-ubuntu-font-family<br>sans-serif typeface hinted for clarity | 1:0.83-0ubuntu2                 | all   | Ubuntu Font Family,                           |
| ii tzdata<br>saving time data                                       | 2016j-0ubuntu0.16.04            | all   | time zone and daylight-                       |
| ii ubuntu-artwork<br>and artwork                                    | 1:14.04+16.04.20161024-0ubuntu1 | all   | Ubuntu themes                                 |
| ii ubuntu-core-launcher<br>ubuntu-core<br>(snappy) apps             | 2.20.1ubuntu1                   | amd64 | Launcher for                                  |
| ii ubuntu-desktop<br>system                                         | 1.361                           | amd64 | The Ubuntu desktop                            |
| ii ubuntu-docs                                                      | 16.04.4                         | all   | Ubuntu Desktop Guide                          |
| ii ubuntu-drivers-common<br>additional Ubuntu driver packages       | 1:0.4.17.2                      | amd64 | Detect and install                            |
| ii ubuntu-keyring<br>archive                                        | 2012.05.19                      | all   | GnuPG keys of the Ubuntu                      |
| ii ubuntu-minimal                                                   | 1.361                           | amd64 | Minimal core of Ubuntu                        |
| ii ubuntu-mobile-icons<br>Mobile Icon theme                         | 14.04+16.04.20161024-0ubuntu1   | all   | Ubuntu                                        |
| ii ubuntu-mono<br>14.04+16.04.20161024-0ubuntu1                     | all                             | all   | Ubuntu Mono Icon theme                        |
| ii ubuntu-release-upgrader-core<br>upgrades                         | 1:16.04.20                      | all   | manage release                                |
| ii ubuntu-release-upgrader-gtk<br>upgrades                          | 1:16.04.20                      | all   | manage release                                |
| ii ubuntu-restricted-addons                                         | 23                              | amd64 | Commonly used                                 |

|                                                                              |                                               |       |       |                                      |
|------------------------------------------------------------------------------|-----------------------------------------------|-------|-------|--------------------------------------|
| restricted packages for Ubuntu                                               |                                               |       |       |                                      |
| ii ubuntu-session                                                            | 3.18.1.2-1ubuntu1.16.04.2                     |       | all   | Ubuntu session                       |
| ii ubuntu-settings<br>Ubuntu desktop                                         | 15.10.8                                       |       | all   | default settings for the             |
| ii ubuntu-software<br>for browsing, installing,<br>and removing software     | 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 | amd64 |       | Utility                              |
| ii ubuntu-sounds<br>theme                                                    | 0.13                                          |       | all   | Ubuntu's GNOME audio                 |
| ii ubuntu-standard<br>system                                                 | 1.361                                         |       | amd64 | The Ubuntu standard                  |
| ii ubuntu-system-service<br>system-wide configurations                       | 0.3                                           |       | all   | DBus service to set various          |
| ii ubuntu-touch-sounds<br>Touch image                                        | 15.08                                         |       | all   | sounds for the Ubuntu                |
| ii ubuntu-ui-toolkit-theme<br>Components for Ubuntu - Ubuntu Theme           | 1.3.1918+16.04.20160404-0ubuntu1              |       | amd64 | Qt                                   |
| ii ubuntu-wallpapers                                                         | 16.04.1-0ubuntu1                              |       | all   | Ubuntu Wallpapers                    |
| ii ubuntu-wallpapers-xenial<br>16.04.1-0ubuntu1                              |                                               | all   |       | Ubuntu 16.04 Wallpapers              |
| ii ucf<br>preserve user changes to config files                              | 3.0036                                        |       | all   | Update Configuration File(s):        |
| ii udev<br>management daemon                                                 | 229-4ubuntu16                                 |       | amd64 | /dev/ and hotplug                    |
| ii udisks2<br>and manipulate storage devices                                 | 2.1.7-1ubuntu1                                |       | amd64 | D-Bus service to access              |
| ii ufw<br>Netfilter firewall                                                 | 0.35-0ubuntu2                                 |       | all   | program for managing a               |
| ii unattended-upgrades<br>of security upgrades                               | 0.90ubuntu0.3                                 |       | all   | automatic installation               |
| ii unity<br>space and interaction.                                           | 7.4.0+16.04.20160906-0ubuntu1                 |       | amd64 | Interface designed for efficiency of |
| ii unity-accessibility-profiles<br>Manager - Unity profile data              | 0.1.10-0ubuntu3                               |       | all   | Accessibility Profile                |
| ii unity-asset-pool<br>Pool                                                  | 0.8.24+15.04.20141217-0ubuntu2                |       | all   | Unity Assets                         |
| ii unity-control-center<br>configure the GNOME desktop                       | 15.04.0+16.04.20160705-0ubuntu1               |       | amd64 | utilities to                         |
| ii unity-control-center-faces<br>configure the GNOME desktop - faces images  | 15.04.0+16.04.20160705-0ubuntu1               |       | all   | utilities to                         |
| ii unity-control-center-signon<br>Control Center extension for single signon | 0.1.8+16.04.20160201-0ubuntu1                 |       | amd64 | Unity                                |
| ii unity-greeter<br>16.04.2-0ubuntu1                                         |                                               | amd64 |       | Unity Greeter                        |
| ii unity-gtk-module-common<br>files for GtkMenuShell D-Bus exporter          | 0.0.0+15.04.20150118-0ubuntu2                 |       | all   | Common                               |
| ii unity-gtk2-module:amd64                                                   | 0.0.0+15.04.20150118-0ubuntu2                 |       | amd64 |                                      |

|                                                   |                                  |     |       |                         |
|---------------------------------------------------|----------------------------------|-----|-------|-------------------------|
| GtkMenuShell D-Bus exporter                       |                                  |     |       |                         |
| ii unity-gtk3-module:amd64                        | 0.0.0+15.04.20150118-0ubuntu2    |     | amd64 |                         |
| GtkMenuShell D-Bus exporter                       |                                  |     |       |                         |
| ii unity-lens-applications                        | 7.1.0+16.04.20160701-0ubuntu1    |     | amd64 | Application             |
| lens for unity                                    |                                  |     |       |                         |
| ii unity-lens-files                               | 7.1.0+16.04.20151217-0ubuntu1    |     | amd64 | File lens for           |
| unity                                             |                                  |     |       |                         |
| ii unity-lens-music                               | 6.9.1+16.04-0ubuntu1             |     | amd64 |                         |
| Music lens for unity                              |                                  |     |       |                         |
| ii unity-lens-photos                              | 1.0+14.04.20140318-0ubuntu1      |     | all   | Photos lens for         |
| Unity                                             |                                  |     |       |                         |
| ii unity-lens-video                               | 0.3.15+16.04.20160212.1-0ubuntu1 |     | amd64 | Unity Video             |
| lens                                              |                                  |     |       |                         |
| ii unity-schemas                                  | 7.4.0+16.04.20160906-0ubuntu1    |     | all   | Interface               |
| designed for efficiency of space and interaction. |                                  |     |       |                         |
| ii unity-scope-calculator                         | 0.1+14.04.20140328-0ubuntu1      |     | all   | Calculator              |
| scope for Unity                                   |                                  |     |       |                         |
| ii unity-scope-chromiumbookmarks                  | 0.1+13.10.20130723-0ubuntu1      |     | all   |                         |
| Chromium bookmarks scope for Unity                |                                  |     |       |                         |
| ii unity-scope-colourlovers                       | 0.1+13.10.20130723-0ubuntu1      |     | all   |                         |
| COLOURlovers scope for Unity                      |                                  |     |       |                         |
| ii unity-scope-devhelp                            | 0.1+14.04.20140328-0ubuntu1      | all |       | devhelp scope for Unity |
| devhelp scope for Unity                           |                                  |     |       |                         |
| ii unity-scope-firefoxbookmarks                   | 0.1+13.10.20130809.1-0ubuntu1    |     | all   | Firefox                 |
| bookmarks scope for Unity                         |                                  |     |       |                         |
| ii unity-scope-gdrive                             | 0.9+16.04.20151125-0ubuntu1      |     | all   | Google Drive            |
| scope for Unity                                   |                                  |     |       |                         |
| ii unity-scope-home                               | 6.8.2+16.04.20160212.1-0ubuntu1  |     | amd64 | Home scope              |
| that aggregates results from multiple scopes      |                                  |     |       |                         |
| ii unity-scope-manpages                           | 3.0+14.04.20140324-0ubuntu1      |     | all   | Manual pages            |
| scope for Unity                                   |                                  |     |       |                         |
| ii unity-scope-openclipart                        | 0.1+13.10.20130723-0ubuntu1      |     | all   | OpenClipArt             |
| scope for Unity                                   |                                  |     |       |                         |
| ii unity-scope-texdoc                             | 0.1+14.04.20140328-0ubuntu1      |     |       |                         |
| all    Texdoc scope for Unity                     |                                  |     |       |                         |
| ii unity-scope-tomboy                             | 0.1+13.10.20130723-0ubuntu1      |     | all   | Tomboy scope            |
| for Unity                                         |                                  |     |       |                         |
| ii unity-scope-video-remote                       | 0.3.15+16.04.20160212.1-0ubuntu1 |     | amd64 | Remote                  |
| videos engine                                     |                                  |     |       |                         |
| ii unity-scope-virtualbox                         | 0.1+13.10.20130723-0ubuntu1      |     | all   | VirtualBox              |
| scope for Unity                                   |                                  |     |       |                         |
| ii unity-scope-yelp                               | 0.1+13.10.20130723-0ubuntu1      |     | all   | Help scope for          |
| Unity                                             |                                  |     |       |                         |
| ii unity-scope-zotero                             | 0.1+13.10.20130723-0ubuntu1      |     | all   | Zotero scope for        |
| Unity                                             |                                  |     |       |                         |
| ii unity-scopes-master-default                    | 6.8.2+16.04.20160212.1-0ubuntu1  |     | all   | Home scope              |
| that aggregates results from multiple scopes      |                                  |     |       |                         |
| ii unity-scopes-runner                            |                                  |     |       |                         |

|                           |                                 |       |                                                                |
|---------------------------|---------------------------------|-------|----------------------------------------------------------------|
|                           | 7.1.4+16.04.20160701-0ubuntu1   | all   | desktop runner for misceallenous scopes                        |
| ii unity-services         | 7.4.0+16.04.20160906-0ubuntu1   | amd64 | Services for the Unity interface                               |
| ii unity-settings-daemon  | 15.04.1+16.04.20160701-0ubuntu1 | amd64 | daemon handling the Unity session settings                     |
| ii unity-webapps-common   | 2.4.17+15.10.20150616-0ubuntu2  | all   | Unity WebApp integration scripts                               |
| ii unity-webapps-qml      | 0.1+16.04.20160114-0ubuntu1     | amd64 | Unity Webapps QML component                                    |
| ii unity-webapps-service  | 2.5.0~+16.04.20160201-0ubuntu1  | amd64 | Service for Web Apps integration with the Unity desktop        |
| ii uno-libs3              | 5.1.4-0ubuntu1                  |       |                                                                |
|                           | amd64                           |       | LibreOffice UNO runtime environment -- public shared libraries |
| ii unzip                  | 6.0-20ubuntu1                   | amd64 | De-archiver for .zip files                                     |
| ii update-inetd           | 4.43                            | all   | inetd configuration file updater                               |
| ii update-manager         | 1:16.04.5                       | all   | GNOME application that manages apt updates                     |
| ii update-manager-core    | 1:16.04.5                       | all   | manage release upgrades                                        |
| ii update-notifier        | 3.168.3                         | amd64 | Daemon which notifies about package updates                    |
| ii update-notifier-common | 3.168.3                         |       |                                                                |
|                           | all                             |       | Files shared between update-notifier and other packages        |
| ii upower                 | 0.99.4-2ubuntu0.3               | amd64 | abstraction for power management                               |
| ii upstart                | 1.13.2-0ubuntu21.1              | amd64 | event-based init daemon - essential binaries                   |
| ii ure                    | 5.1.4-0ubuntu1                  | amd64 | LibreOffice UNO runtime environment                            |
| ii ureadahead             | 0.100.0-19                      | amd64 | Read required files in advance                                 |
| ii usb-creator-common     | 0.3.2                           | amd64 | create a startup disk using a CD or disc image (common files)  |
| ii usb-creator-gtk        | 0.3.2                           |       |                                                                |
|                           | amd64                           |       | create a startup disk using a CD or disc image (for GNOME)     |
| ii usb-modeswitch         | 2.2.5+repack0-1ubuntu1          | amd64 | mode switching tool for controlling "flip flop" USB devices    |
| ii usb-modeswitch-data    | 20151101-1                      | all   | mode switching data for usb-modeswitch                         |
| ii usbmuxd                | 1.1.0-2                         | amd64 | USB multiplexor daemon for iPhone and iPod Touch devices       |
| ii usbutils               | 1:007-4                         | amd64 | Linux USB utilities                                            |
| ii util-linux             | 2.27.1-6ubuntu3.2               | amd64 | miscellaneous system utilities                                 |
| ii uuid-runtime           | 2.27.1-6ubuntu3.2               |       |                                                                |
|                           | amd64                           |       | runtime components for the Universally Unique ID library       |
| ii va-driver-all:amd64    | 1.7.0-1                         | amd64 | Video Acceleration (VA) API -- driver metapackage              |
| ii vbetool                | 1.1-3                           | amd64 | run real-mode video BIOS                                       |

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| code to alter hardware state                   |                              |       |                                        |  |
| ii vdpau-driver-all:amd64                      | 1.1.1-3ubuntu1               | amd64 | Video Decode and                       |  |
| Presentation API for Unix (driver metapackage) |                              |       |                                        |  |
| ii vdpau-va-driver:amd64                       | 0.7.4-5                      | amd64 | VDPAAU-based                           |  |
| backend for VA API                             |                              |       |                                        |  |
| ii vim                                         | 2:7.4.1689-3ubuntu1.2        | amd64 | Vi IMproved -                          |  |
| enhanced vi editor                             |                              |       |                                        |  |
| ii vim-common                                  | 2:7.4.1689-3ubuntu1.2        |       |                                        |  |
| amd64 Vi IMproved - Common files               |                              |       |                                        |  |
| ii vim-runtime                                 | 2:7.4.1689-3ubuntu1.2        | all   | Vi IMproved - Runtime                  |  |
| files                                          |                              |       |                                        |  |
| ii vim-tiny                                    | 2:7.4.1689-3ubuntu1.2        | amd64 | Vi IMproved -                          |  |
| enhanced vi editor - compact version           |                              |       |                                        |  |
| ii vino                                        | 3.8.1-0ubuntu9.1             | amd64 | VNC server for GNOME                   |  |
| ii virtualbox-5.1                              | 5.1.14-112924~Ubuntu~xenial  | amd64 | Oracle VM                              |  |
| VirtualBox                                     |                              |       |                                        |  |
| ii wamerican                                   | 7.1-1                        | all   | American English dictionary            |  |
| words for /usr/share/dict                      |                              |       |                                        |  |
| ii wbritish                                    | 7.1-1                        | all   | British                                |  |
| English dictionary words for /usr/share/dict   |                              |       |                                        |  |
| ii webapp-container                            | 0.23+16.04.20161028-0ubuntu2 | amd64 | Ubuntu web                             |  |
| applications container                         |                              |       |                                        |  |
| ii webbrowser-app                              | 0.23+16.04.20161028-0ubuntu2 | amd64 | Ubuntu web                             |  |
| browser                                        |                              |       |                                        |  |
| ii wget                                        | 1.17.1-1ubuntu1.1            | amd64 | retrieves files from the               |  |
| web                                            |                              |       |                                        |  |
| ii whiptail                                    | 0.52.18-1ubuntu2             | amd64 | Displays user-friendly                 |  |
| dialog boxes from shell scripts                |                              |       |                                        |  |
| ii whois                                       | 5.2.11                       | amd64 | intelligent WHOIS client               |  |
| ii whoopsie                                    | 0.2.52.2                     | amd64 | Ubuntu error tracker                   |  |
| submission                                     |                              |       |                                        |  |
| ii whoopsie-preferences                        | 0.18                         | amd64 | System preferences for error reporting |  |
|                                                |                              |       |                                        |  |
| ii wireless-regdb                              | 2015.07.20-1ubuntu1          | all   | wireless regulatory                    |  |
| database                                       |                              |       |                                        |  |
| ii wireless-tools                              | 30~pre9-8ubuntu1             | amd64 | Tools for                              |  |
| manipulating Linux Wireless Extensions         |                              |       |                                        |  |
| ii witalian                                    | 1.7.6                        | all   | Italian dictionary words for           |  |
| /usr/share/dict/                               |                              |       |                                        |  |
| ii wpasupplicant                               | 2.4-0ubuntu6                 | amd64 | client support for WPA                 |  |
| and WPA2 (IEEE 802.11i)                        |                              |       |                                        |  |
| ii wxcrafter                                   | 2.7-1.xenial                 | amd64 | gui generator plugin for               |  |
| codelite                                       |                              |       |                                        |  |
| ii x11-apps                                    | 7.7+5+nmu1ubuntu1            | amd64 | X applications                         |  |
|                                                |                              |       |                                        |  |
| ii x11-common                                  | 1:7.7+13ubuntu3              | all   | X Window System                        |  |
| (X.Org) infrastructure                         |                              |       |                                        |  |
| ii x11-session-utils                           | 7.7+2                        | amd64 | X session utilities                    |  |

|                                                                |                        |       |                                              |
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| ii x11-utils                                                   | 7.7+3                  | amd64 | X11 utilities                                |
| ii x11-xkb-utils                                               | 7.7+2                  | amd64 | X11 XKB utilities                            |
| ii x11-xserver-utils                                           | 7.7+7                  | amd64 | X server utilities                           |
| ii x11proto-composite-dev<br>extension wire protocol           | 1:0.4.2-2              | all   | X11 Composite                                |
| ii x11proto-core-dev                                           | 7.0.28-2ubuntu1        | all   | X11 core wire protocol and auxiliary headers |
| ii x11proto-damage-dev<br>wire protocol                        | 1:1.2.1-2              | all   | X11 Damage extension                         |
| ii x11proto-dri2-dev<br>protocol                               | 2.8-2                  | all   | X11 DRI2 extension wire                      |
| ii x11proto-fixes-dev<br>wire protocol                         | 1:5.0-2ubuntu2         | all   | X11 Fixes extension                          |
| ii x11proto-gl-dev<br>protocol                                 | 1.4.17-1               | all   | X11 OpenGL extension wire                    |
| ii x11proto-input-dev<br>protocol                              | 2.3.1-1                | all   | X11 Input extension wire                     |
| ii x11proto-kb-dev<br>1.0.7-0ubuntu1                           | all                    |       | X11 XKB extension wire protocol              |
| ii x11proto-randr-dev<br>protocol                              | 1.5.0-1                | all   | X11 RandR extension wire                     |
| ii x11proto-render-dev<br>wire protocol                        | 2:0.11.1-2             | all   | X11 Render extension                         |
| ii x11proto-xext-dev<br>protocol                               | 7.3.0-1                | all   | X11 various extension wire                   |
| ii x11proto-xf86vidmode-dev<br>extension wire protocol         | 2.3.1-2                | all   | X11 Video Mode                               |
| ii x11proto-xinerama-dev<br>wire protocol                      | 1.2.1-2                | all   | X11 Xinerama extension                       |
| ii xauth<br>X authentication utility                           | 1:1.0.9-1ubuntu2       | amd64 |                                              |
| ii xbitmaps                                                    | 1.1.1-2                | all   | Base X bitmaps                               |
| ii xbrlapi<br>blind person using a braille display - xbrlapi   | 5.3.1-2ubuntu2.1       | amd64 | Access software for a                        |
| ii xcursor-themes                                              | 1.0.4-1                | all   | Base X cursor themes                         |
| ii xdg-user-dirs<br>known user directories                     | 0.15-2ubuntu6          | amd64 | tool to manage well                          |
| ii xdg-user-dirs-gtk<br>known user directories (Gtk extension) | 0.10-1ubuntu1          | amd64 | tool to manage well                          |
| ii xdg-utils<br>utilities from freedesktop.org                 | 1.1.1-1ubuntu1.16.04.1 | all   | desktop integration                          |
| ii xdiagnose                                                   | 3.8.4.1                | all   | X.org diagnosis tool                         |
| ii xfonts-base                                                 | 1:1.0.4+nmu1           | all   | standard fonts for X                         |
| ii xfonts-encodings                                            | 1:1.0.4-2              | all   | Encodings for X.Org fonts                    |
| ii xfonts-scalable                                             | 1:1.0.3-1.1            | all   | scalable fonts for X                         |
| ii xfonts-utils<br>utility programs                            | 1:7.7+3                | amd64 | X Window System font                         |
| ii xinit                                                       | 1.3.4-3ubuntu0.1       | amd64 | X server initialisation tool                 |

|    |                              |       |                                                  |       |                                                           |
|----|------------------------------|-------|--------------------------------------------------|-------|-----------------------------------------------------------|
| ii | xinput                       |       | 1.6.2-1                                          |       |                                                           |
|    |                              | amd64 | Runtime configuration and test of XInput devices |       |                                                           |
| ii | xkb-data                     |       | 2.16-1ubuntu1                                    | all   | X Keyboard Extension (XKB) configuration data             |
| ii | xml-core                     |       | 0.13+nmu2                                        | all   | XML infrastructure and XML catalog file support           |
| ii | xorg                         |       | 1:7.7+13ubuntu3                                  | amd64 | X.Org X Window System                                     |
| ii | xorg-docs-core               |       | 1:1.7.1-1ubuntu1                                 | all   | Core documentation for the X.org X Window System          |
| ii | xorg-sgml-doctools           |       | 1:1.11-1                                         | all   | Common tools for building X.Org SGML documentation        |
| ii | xserver-common               |       | 2:1.18.4-0ubuntu0.2                              |       |                                                           |
|    |                              | all   | common files used by various X servers           |       |                                                           |
| ii | xserver-xorg                 |       | 1:7.7+13ubuntu3                                  | amd64 | X.Org X server                                            |
| ii | xserver-xorg-core            |       | 2:1.18.4-0ubuntu0.2                              | amd64 | Xorg X server - core server                               |
| ii | xserver-xorg-input-all       |       | 1:7.7+13ubuntu3                                  | amd64 | X.Org X server -- input driver metapackage                |
| ii | xserver-xorg-input-evdev     |       | 1:2.10.1-1ubuntu2                                | amd64 | X.Org X server -- evdev input driver                      |
| ii | xserver-xorg-input-synaptics |       | 1.8.2-1ubuntu3                                   | amd64 | Synaptics TouchPad driver for X.Org server                |
| ii | xserver-xorg-input-vmouse    |       | 1:13.1.0-1ubuntu2                                | amd64 | X.Org X server -- VMMouse input driver to use with VMWare |
| ii | xserver-xorg-input-wacom     |       | 1:0.32.0-0ubuntu3                                | amd64 | X.Org X server -- Wacom input driver                      |
| ii | xserver-xorg-video-all       |       | 1:7.7+13ubuntu3                                  | amd64 | X.Org X server -- output driver metapackage               |
| ii | xserver-xorg-video-amdgpu    |       | 1.1.0-1                                          | amd64 | X.Org X server -- AMDGPU display driver                   |
| ii | xserver-xorg-video-ati       |       | 1:7.7.0-1                                        | amd64 | X.Org X server -- AMD/ATI display driver wrapper          |
| ii | xserver-xorg-video-fbdev     |       | 1:0.4.4-1build5                                  | amd64 | X.Org X server -- fbdev display driver                    |
| ii | xserver-xorg-video-intel     |       | 2:2.99.917+git20160325-1ubuntu1.2                | amd64 | X.Org X server -- Intel i8xx, i9xx display driver         |
| ii | xserver-xorg-video-nouveau   |       | 1:1.0.12-1build2                                 | amd64 | X.Org X server - Nouveau display driver                   |
| ii | xserver-xorg-video-qxl       |       | 0.1.4-3ubuntu3                                   | amd64 | X.Org X server -- QXL display driver                      |
| ii | xserver-xorg-video-radeon    |       | 1:7.7.0-1                                        | amd64 | X.Org X server -- AMD/ATI Radeon display driver           |
| ii | xserver-xorg-video-vesa      |       | 1:2.3.4-1build2                                  | amd64 | X.Org X server -- VESA display driver                     |
| ii | xserver-xorg-video-vmware    |       | 1:13.1.0-2ubuntu3                                | amd64 | X.Org X server -- VMware display driver                   |
| ii | xterm                        |       | 322-1ubuntu1                                     | amd64 | X terminal                                                |

|                                                                    |                              |       |       |                                                  |
|--------------------------------------------------------------------|------------------------------|-------|-------|--------------------------------------------------|
| emulator                                                           |                              |       |       |                                                  |
| ii xtrans-dev<br>(development files)                               | 1.3.5-1                      |       | all   | X transport library                              |
| ii xul-ext-ubufox<br>Firefox                                       | 3.2-0ubuntu1                 |       | all   | Ubuntu modifications for                         |
| ii xz-utils<br>compression utilities                               | 5.1.1alpha+20120614-2ubuntu2 |       | amd64 | XZ-format                                        |
| ii yelp                                                            | 3.18.1-1ubuntu4              |       | amd64 | Help browser for GNOME                           |
| ii yelp-xsl<br>help browser                                        | 3.18.1-1                     |       | all   | XSL stylesheets for the yelp                     |
| ii zeitgeist-core<br>framework - engine                            | 0.9.16-0ubuntu4              |       | amd64 | event logging                                    |
| ii zeitgeist-datahub<br>0.9.16-0ubuntu4                            |                              | amd64 |       | event logging framework - passive logging daemon |
| ii zenity<br>boxes from shell scripts                              | 3.18.1.1-1ubuntu2            |       | amd64 | Display graphical dialog                         |
| ii zenity-common<br>dialog boxes from shell scripts (common files) | 3.18.1.1-1ubuntu2            |       | all   | Display graphical                                |
| ii zip                                                             | 3.0-11                       |       | amd64 | Archiver for .zip files                          |
| ii zlib1g:amd64<br>- runtime                                       | 1:1.2.8.dfsg-2ubuntu4        |       | amd64 | compression library                              |
| ii zlib1g:i386<br>runtime                                          | 1:1.2.8.dfsg-2ubuntu4        |       | i386  | compression library -                            |
| ii zlib1g-dev:amd64<br>1:1.2.8.dfsg-2ubuntu4                       |                              | amd64 |       | compression library - development                |

Found in path(s):

```
* /opt/cola/permits/2040574555_1717537232.8123631/0/295b9e165630428509cb78428a3228df-
a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7-zip/295b9e165630428509cb78428a3228df-
a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7/packages.list
```

## 1.439 stdlib go1.22.4

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## 1.440 core 6.0.0

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## 1.441 junit 4.13-beta-3

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