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1.2 lua 5.0.2

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1.3 libjpeg 6b

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

=====

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION

ROADMAP

=====

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal

documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG

decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining

code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1

and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The

JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.)

In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still

Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department

C-Cube Microsystems, Inc.

1778 McCarthy Blvd.

Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at

<ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text

version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing

the figures.

The TIFF 6.0 file format specification can be obtained by FTP from

<ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation

scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2

(Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or

from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision

of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory `graphics/jpeg`. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups `comp.graphics.misc`, `news.answers`, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other `news.answers` archive sites, including the official `news.answers` archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send `usenet/news.answers/jpeg-faq/part1`
send `usenet/news.answers/jpeg-faq/part2`

RELATED SOFTWARE

=====

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image

files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed,

one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

```
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/*
minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
This file is Public Domain. Welcome any email to me.

usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
```

1.9 zlib 1.2.5

1.9.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010
```

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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://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

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1.10 zlib 1.2.8

1.10.1 Available under license :

```
/* 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).

*/

1.11 unzip 6.0

1.11.1 Available under license :

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FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
* Copyright 1992-1998
```

Apple Computer, Inc.

```
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*
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```

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The following
copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

```
* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -----
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol leonardr@netcom.com)
```

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```
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*
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* If you use this in your own program you must distribute source code.
* Do not use any of this in a commercial product.
```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten

and by default

no longer contains any of Mr. Smith's code, Info-ZIP

remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.12 libusb-compat 0.1.5

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1.13 zlib 1.2.3

1.13.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.1.4, March 11th, 2002
```

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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 ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

```
*/  
/* match.s -- Pentium-optimized version of longest_match()  
* Written for zlib 1.1.2  
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>  
*  
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*/
```

1.14 IASSO 2.5.1

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1.15 findutils 4.6.0

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Version 3, 29 June 2007

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1.16 pam 1.3.0

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1.17 libpcap 1.8.1

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1.18 diffutils 3.6

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1.19 libxslt 1.1.32

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content="DocBook XSL Stylesheets V1.37"></head><body bgcolor="white" text="black" link="#0000FF"
vlink="#840084" alink="#0000FF"><div class="legalnotice"><p class="legalnotice-
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```
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1.21 libmnl 1.0.4

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Any executables

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```
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```

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```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */
```

```
/*
```

```
* System call numbers.
```

```
*
```

```
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
```

```
*/
```

```
#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
```

```

#define TARGET_NETBSD_NR_open      5
#define TARGET_NETBSD_NR_close     6
#define TARGET_NETBSD_NR_wait4     7
#define TARGET_NETBSD_NR_compat_43_ocreat  8
#define TARGET_NETBSD_NR_link      9
#define TARGET_NETBSD_NR_unlink    10
#define TARGET_NETBSD_NR_chdir     12
#define TARGET_NETBSD_NR_fchdir    13
#define TARGET_NETBSD_NR_mknod     14
#define TARGET_NETBSD_NR_chmod     15
#define TARGET_NETBSD_NR_chown     16
#define TARGET_NETBSD_NR_break     17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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```
/*
```

```
* System call numbers.
```

```
*
```

```
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
```

```
* 2012-01-06 19:29:16Z jhb
```

```
*/
```

```
#define TARGET_FREEBSD_NR_syscall 0
```

```
#define TARGET_FREEBSD_NR_exit 1
```

```
#define TARGET_FREEBSD_NR_fork 2
```

```
#define TARGET_FREEBSD_NR_read 3
```

```
#define TARGET_FREEBSD_NR_write 4
```

```
#define TARGET_FREEBSD_NR_open 5
```

```
#define TARGET_FREEBSD_NR_close 6
```

```
#define TARGET_FREEBSD_NR_wait4 7
```

```
/* 8 is old creat */
```

```
#define TARGET_FREEBSD_NR_link 9
```

```
#define TARGET_FREEBSD_NR_unlink 10
```

```
/* 11 is obsolete execv */
```

```
#define TARGET_FREEBSD_NR_chdir 12
```

```
#define TARGET_FREEBSD_NR_fchdir 13
```

```
#define TARGET_FREEBSD_NR_mknod 14
```

```

#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid
    23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin
    49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60

```

```

#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define
TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */

    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */

```

```

/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid
127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/*
150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157

```

```

#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsyz 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat
188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget
225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228

```

```

#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio
    257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid
    310
#define TARGET_FREEBSD_NR_setresuid 311

```

```

#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define
    TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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components

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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```

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```

```
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```

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

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accepted.

Index: debug.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@

void X86EMU_trace_regs (void)

```
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+   if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+       x86emu_dump_xregs();
+   } else {
+       x86emu_dump_regs();
+   }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
        }
-       printk("%-20s", buf1);
+       printk("%-20s ", buf1);
    }
}
```

static void print_decoded_instruction (void)

Index: ops2.c

=====
RCS file:

/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

```
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
        M.x86.R_IP = (u16)target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
}
```

```

+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/******
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:

```



```

+   DECODE_PRINTF("EBP\n");
+   M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+   break;
+   case 0xce:
+   DECODE_PRINTF("ESI\n");
+   M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+   break;
+   case 0xcf:
+   DECODE_PRINTF("EDI\n");
+   M.x86.R_EDI
= x86emu_bswap(M.x86.R_EDI);
+   break;
+   }
+   TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

```

```

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

```

Index:

ops.c

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

```

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

```

@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
    {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();

```

```

    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
    }
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-            M.x86.R_CX -- 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+
                M.x86.R_ECX -- 1;
+            else
+                M.x86.R_CX -- 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+            if (M.x86.intr & INTR_HALTED)
+                break;

```

```

    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
-    M.x86.R_CX -- 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -- 1;
+    else
+        M.x86.R_CX -- 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /*
+    move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-    M.x86.R_CX -- 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -- 1;
+    else
+        M.x86.R_CX -- 1;

```

```

        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;

        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+   break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX --;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX --;
+           else
+               M.x86.R_CX --;
            M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+

```

```

        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+            if (M.x86.intr & INTR_HALTED)
+                break;

```

```

    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX,
val);
@@ -2960,16 +3012,21 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;

```

```

+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
@@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);

```



```

TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);

```

```

TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs,
M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@

```

```

    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4:      /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5:      /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;

```

Index: prim_ops.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v

retrieving revision

1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)

{

#ifdef __HAS_LONG_LONG__

- s64 res = (s64)d * (s64)s;

+ s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;

 *res_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul_long(u32 s)

{

#ifdef __HAS_LONG_LONG__

- u64 res = (u32)M.x86.R_EAX * (u32)s;

+ u64 res = (u64)M.x86.R_EAX * s;

 M.x86.R_EAX = (u32)res;

 M.x86.R_EDX = (u32)(res >> 32);

@@ -2312,16 +2312,15 @@

}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

 /* dont care whether REPE or REPNE */

- /* in until CX is ZERO. */

- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?

+ /* in until (E)CX is ZERO. */

+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

 M.x86.R_ECX : M.x86.R_CX);

-

 while (count--) {

 single_in(size);

 M.x86.R_DI += inc;

 }

 M.x86.R_CX = 0;

- if (M.x86.mode & SYSMODE_PREFIX_DATA) {

+ if (M.x86.mode & SYSMODE_32BIT_REP) {

 M.x86.R_ECX = 0;

 }

 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

@@ -2355,15 +2354,15 @@

```

}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* out until CX is ZERO. */
-   u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+   /* out until (E)CX is ZERO. */
+   u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode
    &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

#include "prim_ops.h"

ifndef LINUXBIOS_VERSION

include "io.h"

else

include <sys/io.h>

endif

ifdef IN_MODULE

include "xf86_ansi.h"

@@ -220,7 +215,7 @@

{

DB(if (DEBUG_IO_TRACE())

printk("inb %#04x \n", addr);

- return inb(addr);

+ return 0;

}

```
M.mem_size = size;
```

```
}
```

```
Index: include/x86emu/debug.h
```

```
=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.4
```

```
diff -u -u -r1.1 -r1.4
```

```
--- include/x86emu/debug.h 7
```

```
Sep 2007 10:01:21 -0000 1.1
```

```
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
```

```
@@ -40,8 +40,6 @@
```

```
#ifndef __X86EMU_DEBUG_H
```

```
#define __X86EMU_DEBUG_H
```

```
//#define DEBUG 0
```

```
#undef DEBUG
```

```
/*----- Macros and type definitions -----*/
```

```
/* checks to be enabled for "runtime" */
```

```
@@ -78,6 +76,8 @@
```

```
# define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
```

```
# define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
```

```
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
```

```
+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
```

```
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```

```
# define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
```

```
# define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
```

```
# define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
```

```
@@ -96,6 +96,8 @@
```

```
# define DEBUG_SYSINT() 0
```

```
# define DEBUG_TRACECALL() 0
```

```
# define DEBUG_TRACECALLREGS() 0
```

```
+# define DEBUG_TRACEJMP()
```

```
0
```

```
+# define DEBUG_TRACEJMPREGS() 0
```

```
# define DEBUG_SYS() 0
```

```
# define DEBUG_MEM_TRACE() 0
```

```
# define DEBUG_IO_TRACE() 0
```

```
@@ -169,14 +171,20 @@
```

```
x86emu_dump_regs();
```

```
if (DEBUG_TRACECALL())
```

```
printf("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
```

```
## define RETURN_TRACE(n,u,v)
```

```
## define RETURN_TRACE(u,v,w,x,s)
```

```
if (DEBUG_TRACECALLREGS())
```

```
x86emu_dump_regs();
```

```
if (DEBUG_TRACECALL())
```

```

- printk("%04x:%04x: %s\n",u,v,n);
+ printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s) \
+ if (DEBUG_TRACEJMPREGS()) \
+ x86emu_dump_regs(); \
+ if (DEBUG_TRACEJMP()) \
+ printk("%04x:%04x: JMP %s%04x:%04x\n", u , v , s , w , x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS | \
    SYSMODE_SEGOVR_SS | \
    SYSMODE_PREFIX_DATA | \
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR | \
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
    */
    u32 mode;
    volatile int intr; /* mask of pending interrupts */

```



```

- int          debug;
+ volatile int          debug;
#ifdef DEBUG
- int          check;
+ int          check;
  u16          saved_ip;
  u16          saved_cs;
  int          enc_pos;

```

Index: include/x86emu/x86emu.h

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21

-0000 1.1

+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3

@@ -47,6 +47,7 @@

#include <console.h>

#define printk(x...) printk(BIOS_DEBUG, x)

#else

+#include <stdio.h>

#define printk printf

#endif

@@ -189,6 +181,8 @@

#define DEBUG_TRACECALL_REGS_F 0x004000

#define DEBUG_DECODE_NOPRINT_F 0x008000

#define DEBUG_SAVE_IP_CS_F 0x010000

+#define DEBUG_TRACEJMP_F 0x020000

+#define DEBUG_TRACEJMP_REGS_F 0x040000

#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

@@ -200,5 +194,4 @@

#ifdef __cplusplus

} /* End of "C" linkage for C++ */

#endif

-

#endif /* __X86EMU_X86EMU_H */

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```
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```

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```
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```

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```

```
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```
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```

```
# *****/
```

```
#!/bin/bash
```

```
#set -x
```

```
#set -e
```

```
SVN=`which svn`
```

```
PATCH=`which patch`
```

```
DIFF_FILE=./x86emu_changes.diff
```

```
# check wether svn, patch, ... is available...
```

```
if [ ! -x $SVN ]; then
```

```
echo "subversion executable not found!"
```

```
exit -1
```

```
fi
```

```
if [ ! -x $PATCH ]; then
```

```
echo "patch executable not found!"
```

```
exit -1
```

```
fi
```

```

if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking
out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

```

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```
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```

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*

* @(#)mman.h 8.2 (Berkeley) 1/9/95

* \$FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp \$

*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemtened MAP_INHERIT */

#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemtened MAP_NOEXTEND

*/

#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */

#define

TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

/* \$NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp \$ */

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*
 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

```
#define TARGET_NETBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED   0x0400 /* attempt
hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED      0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK      0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK   0x3ff7

/* $OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $ */
/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */
```

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*

* @(#)mman.h 8.1 (Berkeley) 6/2/93

*/

```
#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */  
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */  
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */
```

```
#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7
```

```
// XXX
```

```
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
```

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Default configuration for sparc-bsd-user

/* \$OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp \$ */

/* \$NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp \$ */

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*

* @(#)errno.h 8.5 (Berkeley) 1/21/94

*/

#define TARGET_EPERM 1 /* Operation not permitted */


```

#define TARGET_ENOENT      2      /* No such file or directory */
#define TARGET_ESRCH      3      /* No such process */
#define TARGET_EINTR      4      /* Interrupted system call */
#define TARGET_EIO        5      /* Input/output error */
#define TARGET_ENXIO      6      /* Device not configured */
#define TARGET_E2BIG      7      /* Argument list too long */
#define TARGET_ENOEXEC    8      /* Exec format error */
#define TARGET_EBADF      9      /* Bad file descriptor */
#define TARGET_ECHILD     10     /* No child processes */
#define TARGET_EDEADLK    11     /* Resource deadlock avoided */
                                /* 11 was EAGAIN */

#define
TARGET_ENOMEM           12     /* Cannot allocate memory */
#define TARGET_EACCES    13     /* Permission denied */
#define TARGET_EFAULT    14     /* Bad address */
#define TARGET_ENOTBLK   15     /* Block device required */
#define TARGET_EBUSY     16     /* Device busy */
#define TARGET_EEXIST     17     /* File exists */
#define TARGET_EXDEV     18     /* Cross-device link */
#define TARGET_ENODEV    19     /* Operation not supported by device */
#define TARGET_ENOTDIR   20     /* Not a directory */
#define TARGET_EISDIR    21     /* Is a directory */
#define TARGET_EINVAL    22     /* Invalid argument */
#define TARGET_ENFILE    23     /* Too many open files in system */
#define TARGET_EMFILE    24     /* Too many open files */
#define TARGET_ENOTTY    25     /*
Inappropriate ioctl for device */
#define TARGET_ETXTBSY   26     /* Text file busy */
#define TARGET_EFBIG     27     /* File too large */
#define TARGET_ENOSPC    28     /* No space left on device */
#define TARGET_ESPIPE    29     /* Illegal seek */
#define TARGET_EROFS     30     /* Read-only file system */
#define TARGET_EMLINK    31     /* Too many links */
#define TARGET_EPIPE     32     /* Broken pipe */

/* math software */
#define TARGET_EDOM      33     /* Numerical argument out of domain */
#define TARGET_ERANGE    34     /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN    35     /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36     /* Operation now in progress */
#define TARGET_EALREADY  37     /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38     /* Socket operation on non-socket */

```

```

#define TARGET_EDESTADDRREQ 39      /* Destination address required */
#define TARGET_EMMSGSIZE 40        /* Message too long */
#define TARGET_EPROTOTYPE 41      /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42     /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45      /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46    /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47    /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48     /* Address already in use */
#define
TARGET_EADDRNOTAVAIL 49         /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50        /* Network is down */
#define TARGET_ENETUNREACH 51    /* Network is unreachable */
#define TARGET_ENETRESET 52      /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53   /* Software caused connection abort */
#define TARGET_ECONNRESET 54     /* Connection reset by peer */
#define TARGET_ENOBUFS 55        /* No buffer space available */
#define TARGET_EISCONN 56        /* Socket is already connected */
#define TARGET_ENOTCONN 57       /* Socket is not connected */
#define TARGET_ESHUTDOWN 58     /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59   /* Too many references: can't splice */
#define TARGET_ETIMEOUT 60      /* Operation timed
out */
#define TARGET_ECONNREFUSED 61   /* Connection refused */

#define TARGET_ELOOP 62         /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63  /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64     /* Host is down */
#define TARGET_EHOSTUNREACH 65  /* No route to host */
#define TARGET_ENOTEMPTY 66    /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67      /* Too many processes */
#define TARGET_EUSERS 68       /* Too many users */
#define TARGET_EDQUOT 69       /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70       /* Stale NFS file handle */
#define TARGET_EREMOTE 71     /* Too many levels of remote in path */
#define TARGET_EBADRPC 72     /* RPC struct is bad */
#define TARGET_ERPCMISMATCH
73      /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */

```

```

#define TARGET_EPROGMISMATCH 75      /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76      /* Bad procedure for program */

#define TARGET_ENOLCK 77           /* No locks available */
#define TARGET_ENOSYS 78           /* Function not implemented */

#define TARGET_EFTYPE 79           /* Inappropriate file type or format */
#define TARGET_EAUTH 80           /* Authentication error */
#define TARGET_ENEEDAUTH 81        /* Need authenticator */
#define TARGET_EIPSEC 82          /* IPsec processing failure */
#define TARGET_ENOATTR 83         /* Attribute not found */
#define TARGET_EILSEQ 84          /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85       /* No medium found */
#define TARGET_EMEDIUMTYPE 86     /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87        /* Conversion overflow */
#define TARGET_ECANCELED 88        /* Operation canceled */
#define TARGET_EIDRM 89           /* Identifier removed */
#define TARGET_ENOMSG 90          /* No message of desired type */
#define TARGET_ELAST 90           /* Must be equal largest errno */

```

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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/*

* FreeBSD strace list

*

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```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd,
  "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
```

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{ TARGET_FREEBSD_NR__umtx_op,
  "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
  NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
  "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
  NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
  NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },

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{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
"freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid,
"getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },

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{ TARGET_FREEBSD_NR_listen,
  "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
},
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
  "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
"sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid,
"setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
"sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d, %p, %#x)",
NULL, NULL },

```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# *   IBM Corporation - initial implementation
```



```
# *****/
```

```
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules
```

```
SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)
```

```
all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir || exit 1 ; done
```

```
# Common targets for all subdirectories:
```

```
clean distclean depend:
```

```
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir $@ ; done
```

```
# Default configuration for sparc64-bsd-user
```

```
# *****/
```

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```

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```

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# *
```

```
# * Contributors:
```

```
# * IBM Corporation - initial implementation
```

```
# *****/
```

```
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules
```

```
ROOTDIR ?= ../..
```

```
LDFLAGS =
```

```
ASFLAGS = -I./include -Wa,-mregnames
```

```
#NOTE: -DDEBUG only needed for debugging/tracing...
```

```
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
```

```
-I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
```

```
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \  
-ffreestanding -Wall -Wno-unused
```

```
X86EMU_OBJS =  
debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o
```

```
%.o: %.S  
$(CC) $(ASFLAGS) -c -o $@ $^
```

```
%.o: %.c  
$(CC) $(CFLAGS) -c -o $@ $^
```

```
all: libx86emu.a
```

```
libx86emu.a: $(X86EMU_OBJS)  
$(AR) -rc $@ $^  
$(RANLIB) $@
```

```
clean:  
$(RM) *.o *.i *.s libx86emu.a
```

```
distclean: clean  
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */
```

```
/*  
* System call numbers.  
*  
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp  
*/
```

```
#define TARGET_OPENBSD_NR_syscall 0  
#define TARGET_OPENBSD_NR_exit 1  
#define TARGET_OPENBSD_NR_fork 2  
#define TARGET_OPENBSD_NR_read 3  
#define TARGET_OPENBSD_NR_write 4  
#define TARGET_OPENBSD_NR_open 5  
#define TARGET_OPENBSD_NR_close 6  
#define TARGET_OPENBSD_NR_wait4 7  
#define TARGET_OPENBSD_NR_link 9  
#define TARGET_OPENBSD_NR_unlink 10  
#define TARGET_OPENBSD_NR_chdir 12  
#define TARGET_OPENBSD_NR_fchdir 13  
#define TARGET_OPENBSD_NR_mknod 14  
#define TARGET_OPENBSD_NR_chmod 15  
#define TARGET_OPENBSD_NR_chown 16  
#define TARGET_OPENBSD_NR_break 17  
#define TARGET_OPENBSD_NR_getpid 20  
#define TARGET_OPENBSD_NR_mount 21
```

```

#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid
    23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin
    50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79

```

```

#define TARGET_OPENBSD_NR_setgroups 80
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/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*

*/

```
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
```

```
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */
```

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Default configuration for x86_64-bsd-user

1.24 open-ldap 2.4.46

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1.25 gawk 4.2.1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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The

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

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1.26 libtool 2.4.6

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1.28 libtasn 4.13

1.28.1 Available under license :

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1.31 zlib 1.2.11

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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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).

*/

1.32 glibc 2.28

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necessary. Here is a sample; alter the names:

@smallexample

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'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

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```
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```

```
/* setjmp is implemented in setjmp.S */
```

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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```
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```
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<signature of Ty Coon>, 1 April 1989
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a

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and the ordinary General Public License
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

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```
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Ty Coon, President of Vice
```

That's all there is to it!

1.35 gzip 1.9

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1.36 python 2.7.15

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History and License

History of the software

=====

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

The `:mod:`asynchat`` and `:mod:`asyncore`` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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strtod
and dtoa

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1.37 net-snmp 5.8

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#

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```
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
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
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
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
#
#
EOF
```

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* \$Id\$

*/

```
#include "db_config.h"
```

```
#include
```

```
"db_int.h"
```

```
#include "dbinc/blob.h"
```

```
#include "dbinc/crypto.h"
```

```
#include "dbinc/db_page.h"
```

```

#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
#include "dbinc/lock.h"
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));

/*
 * __bam_open --
 * Open a btree.
 *
 * PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
 * PUBLIC:   DB_TXN *, const char *, db_pgno_t, u_int32_t));
 */
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
    DB *dbp;
    DB_THREAD_INFO *ip;
    DB_TXN *txn;
    const char *name;
    db_pgno_t base_pgno;
    u_int32_t flags;
{
    BTREE *t;

    COMPQUIET(name, NULL);
    t = dbp->bt_internal;

    /*
     * We don't permit the user to specify a prefix routine if they didn't
     * also specify a comparison routine, they can't know enough about our
     * comparison routine to get it right.
     */
    if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
    {
        __db_errx(dbp->env, DB_STR("1006",
        "prefix comparison may not be specified for default comparison routine"));
        return (EINVAL);
    }

    /*
     * Verify that the bt_minkey value specified won't cause the
     * calculation of ovflsize to underflow [#2406] for this pagesize.
     */
    if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
        B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {

```

```

__db_errx(dbp->env, DB_STR_A("1007",
    "bt_minkey value of %lu too high for page size of %lu",
    "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
return (EINVAL);
}

/* Start up the tree. */
return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}

/*
 * __bam_metachk --
 */
/* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
 */
int
__bam_metachk(dbp, name, btm)
    DB *dbp;
    const char *name;
    BTMETA *btm;
{
    ENV *env;
    u_int32_t vers;
    int ret;

    env = dbp->env;
    ret = 0;

    /*
     * At this point, all we know
     is that the magic number is for a Btree.
     * Check the version, the database may be out of date.
     */
    vers = btm->dbmeta.version;
    if (F_ISSET(dbp, DB_AM_SWAP))
        M_32_SWAP(vers);
    switch (vers) {
    case 6:
    case 7:
        __db_errx(env, DB_STR_A("1008",
            "%s: btree version %lu requires a version upgrade",
            "%s %lu"), name, (u_long)vers);
        return (DB_OLD_VERSION);
    case 8:
    case 9:
    case 10:
        break;
    default:

```



```

__db_errx(env, DB_STR_A("1009",
    "%s: unsupported btree version: %lu", "%s %lu"),
    name, (u_long)vers);
return (EINVAL);
}

/* Swap the page if we need to. */
if (F_ISSET(dbp, DB_AM_SWAP) &&
    (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
    return (ret);

/*
 * Check application info against metadata info, and set info, flags,
 * and type based on metadata info.
 */
if ((ret =
    __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
    return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
    if (dbp->type
        == DB_BTREE)
        goto wrong_type;
    dbp->type = DB_RECNO;
    DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
    if (dbp->type == DB_RECNO)
        goto wrong_type;
    dbp->type = DB_BTREE;
    DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
    F_SET(dbp, DB_AM_DUP);
else
    if (F_ISSET(dbp, DB_AM_DUP)) {
        __db_errx(env, DB_STR_A("1010",
            "%s: DB_DUP specified to open method but not set in database",
            "%s"), name);
        return (EINVAL);
    }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
    if (dbp->type != DB_BTREE)
        goto wrong_type;
    F_SET(dbp, DB_AM_RECNUM);

    if ((ret = __db_fcchk(env,

```

```

    "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
return (ret);
} else
if (F_ISSET(dbp, DB_AM_RECNUM)) {
    __db_errx(env, DB_STR_A("1011",
        "%s: DB_RECNUM specified to open method but not set in database",
        "%s"), name);
    return (EINVAL);
}

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
    if (dbp->type != DB_RECNO)
        goto
    wrong_type;
    F_SET(dbp, DB_AM_FIXEDLEN);
} else
if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
    __db_errx(env, DB_STR_A("1012",
        "%s: DB_FIXEDLEN specified to open method but not set in database",
        "%s"), name);
    return (EINVAL);
}

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
    if (dbp->type != DB_RECNO)
        goto wrong_type;
    F_SET(dbp, DB_AM_RENUMBER);
} else
if (F_ISSET(dbp, DB_AM_RENUMBER)) {
    __db_errx(env, DB_STR_A("1013",
        "%s: DB_RENUMBER specified to open method but not set in database",
        "%s"), name);
    return (EINVAL);
}

if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
    F_SET(dbp, DB_AM_SUBDB);
else
if (F_ISSET(dbp, DB_AM_SUBDB)) {
    __db_errx(env, DB_STR_A("1014",
        "%s: multiple databases specified but not supported by file",
        "%s"), name);
    return (EINVAL);
}

if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
    if (dbp->dup_compare == NULL)
        dbp->dup_compare = __bam_defcmp;
}

```

```

F_SET(dbp, DB_AM_DUPSORT);
}
else
if (dbp->dup_compare != NULL) {
__db_errx(env, DB_STR_A("1015",
"%s: duplicate sort specified but not supported in database",
"%s"), name);
return (EINVAL);
}

#ifdef HAVE_COMPRESSION
if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
F_SET(dbp, DB_AM_COMPRESS);
if ((BTREE *)dbp->bt_internal != NULL &&
!DB_IS_COMPRESSED(dbp) &&
(ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
return (ret);
} else {
if ((BTREE *)dbp->bt_internal != NULL &&
DB_IS_COMPRESSED(dbp)) {
__db_errx(env, DB_STR_A("1016",
"%s: compression specified to open method but not set in database",
"%s"), name);
return (EINVAL);
}
}
#else
if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
__db_errx(env, DB_STR_A("1017",
"%s: compression support has not been compiled in", "%s"),
name);
return (EINVAL);
}
#endif

/* Set the page size. */
dbp->pgsize = btm->dbmeta.pagesize;

dbp->blob_threshold = btm->blob_threshold;
GET_BLOB_FILE_ID(env,
btm, dbp->blob_file_id, ret);
if (ret != 0)
return (ret);
GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
if (ret != 0)
return (ret);
/* Blob databases must be upgraded. */
if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {

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    __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
    name);
    return (EINVAL);
}
#endif HAVE_64BIT_TYPES
if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
    __db_errx(env, DB_STR_A("1199",
"%s: blobs require 64 integer compiler support.", "%s"),
    name);
    return (EINVAL);
}
#endif

/* Copy the file's ID. */
memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

return (0);

wrong_type:
if (dbp->type == DB_BTREE)
    __db_errx(env, DB_STR("1018",
"open method type is Btree, database type is Recno"));
else
    __db_errx(env, DB_STR("1019",
"open method type is Recno, database type is Btree"));
return
(EINVAL);
}

/*
 * __bam_read_root --
 * Read the root page and check a tree.
 *
 * PUBLIC: int __bam_read_root __P((DB *,
 * PUBLIC:   DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
 */
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
DB *dbp;
DB_THREAD_INFO *ip;
DB_TXN *txn;
db_pgno_t base_pgno;
u_int32_t flags;
{
    BTMETA *meta;
    BTREE *t;
    DBC *dbc;

```

```

DB_LOCK metalock;
DB_MPOOLFILE *mpf;
int ret, t_ret;

COMPQUIET(flags, 0);

meta = NULL;
t = dbp->bt_internal;
LOCK_INIT(metalock);
mpf = dbp->mpf;
ret = 0;

/* Get a cursor. */
if ((ret = __db_cursor(dbp, ip, txn, &dbc,
    F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
    return (ret);

/* Get the metadata page. */
if ((ret =
    __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
    goto err;
if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
    goto err;

/*
 * If the magic number is set, the tree has been
created. Correct
 * any fields that may not be right. Note, all of the local flags
 * were set by DB->open.
 *
 * Otherwise, we'd better be in recovery or abort, in which case the
 * metadata page will be created/initialized elsewhere.
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size. The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
    t->bt_minkey = meta->minkey;
    t->re_pad = (int)meta->re_pad;
    t->re_len = meta->re_len;

    t->bt_meta = base_pgno;
    t->bt_root = meta->root;
    t->revision = dbp->mpf->mfp->revision;
    if (PGNO(meta) == PGNO_BASE_MD &&

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```

!F_ISSET(dbp, DB_AM_RECOVER) &&
(txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
__memp_set_last_pgno(mpf,
meta->dbmeta.last_pgno)) != 0)
goto err;
} else {
DB_ASSERT(dbp->env,
IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
}

/*
 * !!!
 * If creating a subdatabase, we've already done an insert when
 * we put the subdatabase's entry into the master database, so
 * our last-page-inserted value is wrongly initialized for the
 * master database, not the subdatabase we're creating. I'm not
 * sure where the *right* place to clear this value is, it's not
 * intuitively obvious that it belongs here.
 */
t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
if (meta != NULL && (t_ret = __memp_fput(mpf,
ip, meta, dbc->priority)) != 0 && ret == 0)
ret = t_ret;
if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
ret = t_ret;

if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
ret = t_ret;
return (ret);
}

/*
 * __bam_init_meta --
 *
 * Initialize a btree meta-data page. The following fields may
 * need
 * to be updated later: last_pgno, root.
 */
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
DB *dbp;
BTMETA *meta;
db_pgno_t pgno;
DB_LSN *lsnp;
{
BTREE *t;

```

```

#ifdef HAVE_PARTITION
DB_PARTITION *part;
#endif
ENV *env;

env = dbp->env;
t = dbp->bt_internal;

memset(meta, 0, sizeof(BTMETA));
meta->dbmeta.lsn = *lsnp;
meta->dbmeta.pgno = pgno;
meta->dbmeta.magic = DB_BTREEMAGIC;
meta->dbmeta.version = DB_BTREEVERSION;
meta->dbmeta.pagesize = dbp->pagesize;
if (F_ISSET(dbp, DB_AM_CHKSUM))
    FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
    meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
    DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
    meta->crypto_magic = meta->dbmeta.magic;
}
meta->dbmeta.type = P_BTREEMETA;
meta->dbmeta.free = PGNO_INVALID;
meta->dbmeta.last_pgno = pgno;
if (F_ISSET(dbp, DB_AM_DUP))
    F_SET(&meta->dbmeta, BTM_DUP);
if (F_ISSET(dbp, DB_AM_FIXEDLEN))
    F_SET(&meta->dbmeta,
BTM_FIXEDLEN);
if (F_ISSET(dbp, DB_AM_RECNUM))
    F_SET(&meta->dbmeta, BTM_RECNUM);
if (F_ISSET(dbp, DB_AM_RENUMBER))
    F_SET(&meta->dbmeta, BTM_RENUMBER);
if (F_ISSET(dbp, DB_AM_SUBDB))
    F_SET(&meta->dbmeta, BTM_SUBDB);
if (dbp->dup_compare != NULL)
    F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
if (DB_IS_COMPRESSED(dbp))
    F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
if (dbp->type == DB_RECNO)
    F_SET(&meta->dbmeta, BTM_RECNO);
memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

meta->minkey = t->bt_minkey;
meta->re_len = t->re_len;
meta->re_pad = (u_int32_t)t->re_pad;

```

```

meta->blob_threshold = dbp->blob_threshold;
SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
if ((part = dbp->p_internal) != NULL) {
    meta->dbmeta.nparts = part->nparts;
    if (F_ISSET(part, PART_CALLBACK))
        FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
    if (F_ISSET(part,
PART_RANGE))
        FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
    }
#endif
}

/*
 * __bam_new_file --
 * Create the necessary pages to begin a new database file.
 *
 * This code appears more complex than it is because of the two cases (named
 * and unnamed). The way to read the code is that for each page being created,
 * there are three parts: 1) a "get page" chunk (which either uses malloc'd
 * memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
 * chunk which either does a fop write or an __memp_fput.
 *
 * PUBLIC: int __bam_new_file __P((DB *,
 * PUBLIC:   DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
 */
int
__bam_new_file(dbp, ip, txn, fhp, name)
    DB *dbp;
    DB_THREAD_INFO *ip;
    DB_TXN *txn;
    DB_FH *fhp;
    const char *name;
{
    BTMETA *meta;
    DBT pdbt;
    DB_LSN lsn;
    DB_MPOOLFILE *mpf;
    DB_PGINFO pginfo;
    ENV *env;
    PAGE *root;
    db_pgno_t pgno;
    int ret, t_ret;
    void *buf;

```



```

env = dbp->env;
mpf =
dbp->mpf;
root = NULL;
meta = NULL;
buf = NULL;

if (F_ISSET(dbp, DB_AM_INMEM)) {
/* Build the meta-data page. */
pgno = PGNO_BASE_MD;
if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
return (ret);
LSN_NOT_LOGGED(lsn);
__bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
meta->root = 1;
meta->dbmeta.last_pgno = 1;
if ((ret =
    __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
goto err;
ret = __memp_fput(mpf, ip, meta, dbp->priority);
meta = NULL;
if (ret != 0)
goto err;

/* Build the root page. */
pgno = 1;
if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
goto err;
P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
LSN_NOT_LOGGED(root->lsn);
if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
goto err;
ret =
__memp_fput(mpf, ip, root, dbp->priority);
root = NULL;
if (ret != 0)
goto err;
} else {
memset(&pdbt, 0, sizeof(pdbt));

/* Build the meta-data page. */
pginfo.db_pagesize = dbp->pgsize;
pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));

```

```

pginfo.type = dbp->type;
pdbl.data = &pginfo;
pdbl.size = sizeof(pginfo);
if (dbp->blob_threshold) {
    if ((ret = __blob_generate_dir_ids(dbp, txn,
        &dbp->blob_file_id)) != 0)
        return (ret);
}
if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
    return (ret);
meta = (BTMETA *)buf;
LSN_NOT_LOGGED(lsn);
__bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
meta->root = 1;
meta->dbmeta.last_pgno = 1;
if ((ret = __db_pgout(
    dbp->dbenv, PGNO_BASE_MD, meta, &pdbl)) != 0)
    goto err;
if ((ret = __fop_write(env, txn, name, dbp->dirname,
    DB_APP_DATA, fhp,
    dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE)
? DB_LOG_NOT_DURABLE : 0)) != 0)
    goto err;
meta = NULL;

/* Build the root page. */
#ifdef DIAGNOSTIC
    memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
root = (PAGE *)buf;
P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
LSN_NOT_LOGGED(root->lsn);
if ((ret =
    __db_pgout(dbp->dbenv, root->pgno, root, &pdbl)) != 0)
    goto err;
if ((ret =
    __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
    fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
    goto err;
root = NULL;
}

err: if (buf != NULL)
    __os_free(env, buf);

```

```

else {
    if (meta != NULL &&
        (t_ret = __memp_fput(mpf, ip,
            meta, dbp->priority)) != 0 && ret == 0)
        ret = t_ret;
    if (root != NULL &&
        (t_ret = __memp_fput(mpf, ip,
            root, dbp->priority)) != 0 && ret == 0)
        ret = t_ret;
    }
return (ret);
}

/*
 * __bam_new_subdb --
 * Create a metadata page and a root page for a new btree.
 *
 * PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
 */
int
__bam_new_subdb(mdbp, dbp, ip, txn)
    DB *mdbp, *dbp;
    DB_THREAD_INFO *ip;
    DB_TXN *txn;
{
    BTMETA *meta;
    DBC *dbc;
    DB_LOCK metalock;
    DB_LSN lsn;
    DB_MPOOLFILE *mpf;
    ENV *env;
    PAGE *root;
    int ret, t_ret;

    env = mdbp->env;
    mpf = mdbp->mpf;
    dbc = NULL;
    meta = NULL;
    root = NULL;

    if (dbp->blob_threshold) {
        if ((ret = __blob_generate_dir_ids(dbp, txn,
            &dbp->blob_sdb_id)) != 0)
            return (ret);
    }

    if ((ret = __db_cursor(mdbp, ip, txn,
        &dbc, CDB_LOCKING(env) ? DB_WRITECURSOR : 0)) != 0)

```

```

return (ret);

/* Get, and optionally create the metadata page. */
if ((ret = __db_lget(dbc,
    0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
    goto err;
if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
    != 0)
    goto err;

/* Build meta-data page. */
lsn = meta->dbmeta.lsn;
__bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
if ((ret = __db_log_page(mdbp,
    txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
    goto err;

/* Create and initialize a root page. */
if ((ret = __db_new(dbc,
    dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
    goto err;
root->level = LEAFLEVEL;

if (DBENV_LOGGING(env) &&
    #if !defined(DEBUG_WOP)
    txn != NULL &&
    #endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
    goto err;

meta->root = root->pgno;
if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
    goto err;

/* Release the metadata and root pages. */
if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
    goto err;
meta = NULL;
if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
    goto err;
root = NULL;
err:
if

```

```

(meta != NULL)
if ((t_ret = __memp_fput(mpf, ip,
meta, dbc->priority)) != 0 && ret == 0)
    ret = t_ret;
if (root != NULL)
if ((t_ret = __memp_fput(mpf, ip,
root, dbc->priority)) != 0 && ret == 0)
    ret = t_ret;
if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
    ret = t_ret;
if (dbc != NULL)
if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
    ret = t_ret;
return (ret);
}

```

1.40 bind 9.11.4

1.40.1 Available under license :

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Automated Testing Framework

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- * `configure.ac`, `Makefile.am`: The original versions were derived from the

ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
```

```
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
```

```
  xmlns:xi="http://www.w3.org/2001/XInclude"
```

```
  xmlns:db="http://docbook.org/ns/docbook">
```

```
  <xsl:template name="isc.copyright.format">
```

```
    <xsl:param name="text"/>
```

```
    <xsl:value-of select="$isc.copyright.leader"/>
```

```
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```

```
    <xsl:text>&#10;</xsl:text>
```

```
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
```

```
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
```

```

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of
      select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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1.41 apache-http-server 2.4.39

1.42 cpio 2.12

1.42.1 Available under license :

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Version 3, 29 June 2007

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1.44 libevent 2.1.8

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*

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*

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- code is a network server, the Corresponding Source
- * may be on a different server (operated by you or a third party)
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- * clear directions next to the object code saying where to find the
- * Corresponding Source. Regardless of what server hosts the
- * Corresponding Source, you remain obligated to ensure that it is
- * available for as long as needed to satisfy these requirements.
- *
- * e) Convey the object code using peer-to-peer transmission, provided
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- *
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- * a modified version of its Corresponding Source. The information must
- * suffice to ensure that the continued functioning of the modified object
- * code is in no case prevented or interfered with solely because
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- *
- * If you convey an object code work under this section in, or with, or
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- * part of a transaction in which the right of possession and use of the
- * User Product is transferred to the recipient in perpetuity or for a
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- * if neither you nor any third party retains the ability to install
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- * been installed in ROM).
- *
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- *
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<head>
<title>Berkeley DB: Berkeley DB Product License</title>
<meta name="description" content="Berkeley DB: An embedded database programmatic toolkit.">
<meta name="keywords"
content="embedded,database,programmatic,toolkit,btree,hash,hashing,transaction,transactions,locking,logging,access method,access methods,Java,C,C++">
</head>
<body bgcolor=white>
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</body>
</html>
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```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
```

```

<head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <title>License Change</title>
  <link rel="stylesheet" href="gettingStarted.css" type="text/css" />
  <meta name="generator" content="DocBook XSL Stylesheets V1.73.2" />
  <link rel="start" href="index.html" title="Berkeley DB Installation and Build Guide" />
  <link rel="up" href="upgrade_60_toc.html" title="Chapter9. Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0" />
  <link rel="prev" href="compare_func.html" title="Comparison Function Signature Change" />
  <link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />
</head>
<body>
  <div xmlns="" class="navheader">
    <div class="libver">
      <p>Library Version 12.1.6.0</p>
    </div>
    <table width="100%" summary="Navigation header">
      <tr>
        <th colspan="3" align="center">License Change</th>
      </tr>
      <tr>
        <td width="20%" align="left"><a accesskey="p" href="compare_func.html">Prev</a></td>
        <th width="60%" align="center">Chapter9.
          Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0
        </th>
        <td width="20%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
      </tr>
    </table>
    <hr />
  </div>
  <div class="sect1" lang="en" xml:lang="en">
    <div class="titlepage">
      <div>
        <div>
          <h2 class="title" style="clear: both"><a id="license_change60"></a>License Change</h2>
        </div>
      </div>
    </div>
    <p>
      Starting with the 6.0 / 12c releases, all Berkeley DB products are licensed under the GNU AFFERO GENERAL PUBLIC LICENSE (AGPL), version 3. This license is published by the Free Software Foundation (FSF)
      <a class="ulink" href="http://www.gnu.org/licenses/agpl.html" target="_top">(1)</a> and approved by the Open Source Initiative
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    </p>

```

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```
</p>
</div>
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  <hr />
  <table width="100%" summary="Navigation footer">
    <tr>
      <td width="40%" align="left"><a accesskey="p" href="compare_func.html">Prev</a></td>
      <td width="20%" align="center">
        <a accesskey="u" href="upgrade_60_toc.html">Up</a>
      </td>
      <td width="40%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
    </tr>
    <tr>
      <td width="40%"
align="left" valign="top">Comparison Function Signature Change</td>
      <td width="20%" align="center">
        <a accesskey="h" href="index.html">Home</a>
      </td>
      <td width="40%" align="right" valign="top">Updated SQLite Version</td>
    </tr>
  </table>
</div>
</body>
</html>
```

1.46 parted 3.2

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@c ispell-local-pdict: "ispell-dict"
@c End:
```

1.47 classmate 1.0.0

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Other developers who have contributed code are:

* Brian Langel

1.48 kerberos 1.16

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
```

lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```

<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT: './',
  VERSION: '1.17',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE: true,
  SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript"
src="_static/doctools.js"></script>
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<link rel="next" title="Copyright" href="copyright.html" />
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
<div class="header-wrapper">
  <div class="header">

    <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

    <div class="rel">

      <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
      <a href="mitK5features.html" title="MIT Kerberos features"
        accesskey="P">previous</a> |
      <a href="copyright.html" title="Copyright"
        accesskey="N">next</a> |
      <a href="genindex.html"
title="General Index"
        accesskey="I">index</a> |
      <a href="search.html" title="Enter search criteria"
        accesskey="S">Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

```

```
<div class="content-wrapper">
  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body" role="main">

            <div class="section" id="mit-kerberos-license-information">
              <span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-kerberos-license-information" title="Permalink to this headline"></a></h1>
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class="o"/></span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span>
<span class="n">kadmin</span><span class="o">.</span><span class="n">server</span><span
class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_convert</span><span
class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">.</span><span class="n">kdb</span><span class="o">.</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">.</span><span class="n">krb5</span><span
class="o">.</span><span class="n">error_tables</span><span class="o">.</span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">kprop</span><span class="o">.</span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">kprop</span><span class="o">.</span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
```

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</div>

</div>

</div>

</div>

</div>

<div class="sidebar">

<h2>On this page</h2>

MIT Kerberos License information

<h2>Table of contents</h2>

<li class="toctree-l1">For users

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```
internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
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the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li
class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
```

```
<br/>
```

```
<h4><a href="index.html">Full Table of Contents</a></h4>
```

```
<h4>Search</h4>
```

```
<form class="search" action="search.html" method="get">
```

```
<input type="text" name="q" size="18" />
```

```
<input type="submit" value="Go" />
```

```
<input type="hidden" name="check_keywords" value="yes" />
```

```
<input type="hidden" name="area" value="default" />
```

```
</form>
```

```
</div>
```

```
<div class="clearer"></div>
```

```
</div>
```

```
</div>
```

```
<div class="footer-wrapper">
```

```
<div class="footer" >
```

```
<div class="right" ><i>Release: 1.17</i><br />
```

```
&copy; <a href="copyright.html">Copyright</a> 1985-2019, MIT.
```

```
</div>
```

```
<div class="left">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
>Contents</a> |
```

```
<a href="mitK5features.html" title="MIT Kerberos features"
```

```
>previous</a> |
```

```
<a href="copyright.html" title="Copyright"
```

```
>next</a> |
```

```
<a href="genindex.html" title="General Index"
```

```
>index</a> |
```

```
<a href="search.html" title="Enter search criteria"
```

```
>Search</a> |
```

```
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
```

```
information">feedback</a>
    </div>
</div>
</div>

</body>
</html>
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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-----  
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`src/lib/gssapi`, including the following files:

.. parsed-literal::

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including  
the following new or changed files:

.. parsed-literal::

```
include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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 HAS_SOURCE: true,
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 accesskey="P">previous |
 <a href="build_this.html" title="How to build this documentation from the
source"
 accesskey="N">next |
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</div>

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 </div>
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 <li class="toctree-l1">For application developers
 <li class="toctree-l1">For plugin module
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 <li class="toctree-l1">Building Kerberos V5
 <li class="toctree-l1">Kerberos V5 concepts
 <li class="toctree-l1"><a class="reference internal"
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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c

lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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including  
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include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
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import os

import sys

```

import re

def warn(fname, ln, msg):
 print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
 return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

Check a comment for boilerplate violations. Return true if the comment
is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
 text_seen = False
 is_license = False
 for line in comment:
 if not is_license and indicates_license(line):
 is_license = True
 if text_seen:
 warn(fname, ln, 'License begins after first
line of comment')
 elif code_seen:
 warn(fname, ln, 'License after code')
 elif nonlicense_seen:
 warn(fname, ln, 'License after non-license comments')
 break
 # DB2 licenses start with '/*-' and we don't want to change them.
 if line != " and line != '-':
 text_seen = True
 return is_license

def check_file(lines, fname):
 # Skip emacs mode line if present.
 ln = 0
 if '-*- mode: c;' in lines[ln]:
 ln += 1

 # Check filename comment if present.
 m = re.match(r'\^* ([^]*)(- .*)? */', lines[ln])
 if m:
 if m.group(1) != fname:
 warn(fname, ln, 'Wrong filename in comment')
 ln += 1

 # Scan for license statements.
 in_comment = False
 code_seen = False
 nonlicense_seen = False
 for line in lines[ln:]:
 # Strip out whitespace and comments contained within a line.

```

```

if not in_comment:
 line = re.sub(r'^\s.*?\s*/',
", line)
 line = line.strip()

if not in_comment and '/*' in line:
 (line, sep, comment_part) = line.partition('/*')
 comment = [comment_part.strip()]
 comment_starts_at = ln
 in_comment = True
elif in_comment and '*/' not in line:
 comment.append(line.lstrip('*').rstrip())
elif in_comment:
 (comment_part, sep, line) = line.partition('*/')
 comment.append(comment_part.strip())
 is_license = check_comment(comment, fname, comment_starts_at,
 code_seen, nonlicense_seen)
 nonlicense_seen = nonlicense_seen or not is_license
 in_comment = False
elif line.strip() != "":
 code_seen = True

ln += 1

```

```

for fname in sys.argv[1:]:
 if fname.startswith('./'):
 fname = fname[2:]
 f = open(fname)
 lines = f.readlines()
 f.close()
 check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

```

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@item

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@var{one line to give the library's name and an idea of what it does.}

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smallexample

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@var{signature of Ty Coon}, 1 April 1990  
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@page

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and a brief idea of what it does.}

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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@end smallexample
```

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```
@example
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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Version 3, 29 June 2007

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will

operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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## 1.51 libdaemon 0.14

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding

machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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```
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Andric, Dimitry  
Barron, Danny  
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Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
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Boyce, Keith Garry  
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Braun, Rob  
Bezina, Pavel  
Brooks, Piet  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
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Campbell, Aaron  
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ek, Vtislav  
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Edgington, Ben  
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Frysinger, Mike  
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Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
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Jackson, John R.  
Jackson, Richard L., Jr.  
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Jepeway, Chris  
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Larsen, Case  
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McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
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Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
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Richards, Matt  
Rossum, Guido van  
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Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
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Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
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Sobrado, Igor  
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Spangler, Aaron  
Spradling, Cloyce D.  
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Thomas, Matthew  
Todd, Giles  
Toft, Martin  
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Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
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The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
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Karvonen, Jorma  
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Koir, Klemen  
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Krznar, Tomislav  
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Margeviius, Algimantas  
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Psa, Petr  
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Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
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Taniguchi, Yasuaki  
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Vorotnikov, Artem  
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```
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```
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```

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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:

\*  
\* cvt - IEEE floating point formatting routines.  
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## 1.64 junit 4.10

## 1.65 xml-commons-resolver 1.2

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## 1.72 c-ares 1.14.0

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-- vile: txtmode file-encoding=utf-8  
Upstream source <https://invisible-island.net/ncurses/ncurses.html>  
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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## 1.76 libnettle6 3.4

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## 1.78 coreutils 8.30

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## 1.82 libcgrouop 0.41

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- a) Accompany the

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## 1.83 jansson 2.11

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## 1.84 less 530

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## 1.85 libusb 1.0.22

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## 1.90 iconv 2.28

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```

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```
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```

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## 1.91 tcl 8.6.8

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\*\*\*\*\*

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\*\*\*\*\*

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=====

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization

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2.1.2	2.1.1	2002	PSF	yes
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#### Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-----

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE

Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services  
-----

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

The `:mod:`xmlrpc.client`` module contains the following notice::

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test\_epoll

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Select kqueue

-----

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](https://github.com/supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson

(<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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```

## OpenSSL

-----

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zlib

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cfuhash

-----

The implementation of the hash table used by the :mod:`tracemalloc` is based

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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## 1.94 xerces-j 2.11.0

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## 1.96 file 5.34

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```
-makefile-
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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} $@
```

```
End FreeBSD-specific setup
```

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## 1.97 gnutls 3.6.4

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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Version 3, 29 June 2007

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The

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# 1.98 protobuf 3.6.1

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- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Solaris 10 + Sun Studio fixes.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

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- \* Small patch improving performance of in Python serialization.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- \* HPUX support.

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- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

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- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

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- \* Added CodedInputStream.getTotalBytesRead().

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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

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- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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# 1.99 acpid 2.0.30

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## 1.102 rrdtool 1.7.0

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\$Id\$

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## 1.104 xz 5.2.4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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<html>

<head></head>

<body>

<h3>

Copyright Test

</h3>

<p class="copyright">

1963, 1964, 1965 Jane Doe

</p>

<p class="copyright">

2018 Joe Blow, John Coe

</p>

<p class="copyright">

1977, 1985 Someone else

</p>

</body>

</html>

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```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
```

```
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
```

```
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
```



```
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
 <copyright>
 <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
 </copyright>
 <copyright>
 <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
 <year>1977</year> <year>1985</year> <holder>Someone else</holder>
 </copyright>
</articleinfo>
</article>
```

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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

## 1.108 libidn 1.35

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Version 3, 29 June 2007

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# 1.114 iptables 1.6.2

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## 1.116 busybox 1.29.2

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## 1.117 python-setuptools 39.0.1

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```
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## 1.120 shadow 4.6

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```

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```

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```

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appropriate parts of the General Public License.

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commands you use may be called something other than `show w' and `show  
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school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here a sample; alter the names:

```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

```
That's all there is to it!
#!perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ($Config{usecrosscompile}) {
 skip_all("Not all files are available during cross-compilation");
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
my $v_year = v_year();
```

```
Check that both copyright dates are up-to-date, but only if requested, so
that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
year';
 is $readme_year, $current_year, 'README copyright includes current year';
}
```

```
Otherwise simply check that the two copyright dates match each other:
```

```
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
```

```
done_testing;
```

```
sub readme_year
```

```
returns the latest copyright year from the top-level README file
```

```
{
```



```
open my $readme, '<', './README' or die "Opening README failed: $!";

The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
 or die "Year not found in README copyright message '$copyright_msg'";

$year;
}
```

```
sub v_year
returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
 or die "Copyright statement not found in perl -v output '$output'";

$year;
}
```

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```

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Version 2.1, February 1999

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# 1.125 dosfs-tools 4.1

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```
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## 1.127 cracklib 2.9.5

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<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  
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> > and see if he wants to relicense his code as LGPL... but at this  
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> 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...  
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> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
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> 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



# 1.128 beecrypt 4.2.1

## 1.128.1 Available under license :

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Version 2, June 1991

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- Seth Arnold, for contributing to the documentation.
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- Jon Sturgeon, bug hunter extraordinaire.

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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
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- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

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reported bugs, provided feedback, or works on including BeeCrypt in any

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- \* Frodo Looijaard  
Original author of `libsensors`, `sensors-detect`, `sensors` and `isadump`.
- \* Merlin Hughes  
Original author of `sensord`.
- \* Bob Schlaermann  
Dynamic chip feature detection (a.k.a. generic chip support) in `libsensors` and `sensors`.
- \* Mark M. Hoffman  
Many improvements to the `libsensors` configuration file scanner.
- \* Jean Delvare  
New `libsensors` API, and migration of `sensors` and `sensord` thereto.  
Many optimizations in `libsensors` and `sensors`.  
Configuration file converter.  
Rewrite of `sensors-detect`.  
Support for multiple configuration files in `libsensors`.

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```

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## 1.132 dhcp 4.4.1

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`,  
`admin/check-style-common.awk`,  
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

```

<xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param
name="text" select="$rest"/>
 </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

```

- Local variables:
- mode: sgml
- End:
-->

```

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# 1.133 bridgeutils 1.6

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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```
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```

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```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

## 1.137 libcroco 0.6.12

### 1.137.1 Available under license :

```
/* -*- Mode: C; indent-tabs-mode:nil; c-basic-offset: 8; *- */
```

```
/*
```

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This option is useful when you wish to copy part of the code of

the

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Ty Coon, President of Vice

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# 1.138 rpm 4.14.2

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# 1.140 cryptsetup 2.0.4

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## 1.141 luajit 2.0.5

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`,

admin/check-style-common.awk,  
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,  
except the first one, were first implemented in the Buildtool project.  
They were later adapted to be part of Boost.Process and, during that  
process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param

name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text">

<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">

<xsl:text>Copyright (C) </xsl:text>

```

<xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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include/bsd/sys/time.h  
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include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c

src/radixsort.c  
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man/pidfile.3bsd  
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src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
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include/bsd/md5.h

src/hash/md5.c

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Files:

src/explicit\_bzero.c

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## 1.145 Ivm2 2.02.180

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## 1.146 libvirt 4.7.0

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU



operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be

reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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## 1.147 pango 1.42.4

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Version 2, June 1991

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

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In

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## 1.148 stunnel 5.49

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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (<http://www.speed-soft.de>).

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```
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```

*
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* The Initial Developer of the Original Code is University of Southern
* California.
*
* Contributor(s):
* Kristian Høgsberg <krh@redhat.com>
* Carl Worth <cworth@cworth.org>
*/
/* cairo-fdr - a 'flight data recorder', a black box, for cairo
*
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## 1.151 icu 62

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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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## 1.152 e2fsprogs 1.44.3

### 1.152.1 Available under license :

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 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) $(LD_FLAGS_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)/$(BSD_LIB)
@-$(LD_CONFIG)
```

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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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
- 
- Copyright (C) Andrew Tridgell           2005
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Gadi Oxman, August 1995

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Theodore Ts'o  
23-June-2007

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```
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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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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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## 1.153 dtc 1.4.7

### 1.153.1 Available under license :

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=====

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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## 1.154 libseccomp 2.3.3

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```

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```

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## 1.157 openjsse 1.1.3

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## 1.158 libnl3 3.4.0

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Version 2.1, February 1999

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## 1.159 iputils 20180629

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Version 3, 29 June 2007

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Any executables

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```

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48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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```

```
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the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
```

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```
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under certain conditions; type `show c' for details.
```

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## 1.175 ipmi-tool 1.8.18

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## 1.176 kerberos 1.16.1

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```
cmd/krb5/ipropl/ipropl.x
cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropl_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
```

lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
```

```
/* tests/shlib/t_loader.c */
```

```
/*
```

```
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```
*
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c

lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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including  
the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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kprop/kpropd\_rpc.c  
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## 1.177 syslog-ng 3.16.1

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## 1.179 asm 5.0.3

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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.
- \*/

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- \*/

```

/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. 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
 * <tt>null</tt> 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/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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jar/org/objectweb/asm/xml/SAXAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java  
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jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
\*  
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jar/org/objectweb/asm/xml/Processor.java  
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jar/org/objectweb/asm/xml/SAXClassAdapter.java  
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jar/org/objectweb/asm/xml/ASMContentHandler.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.
 */
```

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```
*/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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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/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/GeneratorAdapter.java

```

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\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/commons/Method.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/FieldWriter.java  
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jar/org/objectweb/asm/util/TraceClassVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
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jar/org/objectweb/asm/tree/LineNumberNode.java  
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jar/org/objectweb/asm/optimizer/Constant.java  
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jar/org/objectweb/asm/Context.java  
\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-  
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
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 jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Label.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
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/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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- \* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/ASMifiable.java
- \* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifiable.java

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/package.html
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/signature/package.html
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```

```
/**
```

```
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
```

jar/org/objectweb/asm/TypePath.java

\* /opt/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-

jar/org/objectweb/asm/TypeReference.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/ws\_local/PERMITS\_SQL/1073269102\_1595440672.31/0/asm-5-0-3-sources-2-

jar/org/objectweb/asm/util/Textifier.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/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
```

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Found in path(s):

```
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jar/org/objectweb/asm/optimizer/shrink-frames.properties
```

```
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-writer.properties
```

```
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-resize.properties
```

```
*
```

```
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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```

```
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/shrink-signatures.properties
```

```
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```

# 1.180 libssh2 1.6.0

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```
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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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\*

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\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

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\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather  
lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
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\* M. Welsh, 6 July 1996  
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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

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\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/util/DescendantAxisIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/util/PrecedingAxisIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/dom/DocumentNavigator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/util/AncestorOrSelfAxisIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/Navigator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/util/FollowingAxisIterator.java

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- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/saxpath/XPathHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/PredicateSet.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultAdditiveExpr.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/NumberExpr.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultAbsolutePath.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultModExpr.java
- \*  
 /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-

```

jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/XPathReader.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/Operator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/base/XPathLexer.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/AdditiveExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultMultiplyExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/base/XPathReader.java
*
/opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultMinusExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultLocationPath.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/SAXPathEventSource.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultPathExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/base/Token.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/saxpath/SAXPathException.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultNumberExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/XPathFactory.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/saxpath/Axis.java
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Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/saxpath/base/Verifier.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/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/EqualityExpr.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/Predicate.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/TrueFunction.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-

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jar/org/jaxen/function/PositionFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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jar/org/jaxen/function/NormalizeSpaceFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/function/ContainsFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/util/AncestorAxisIterator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/BinaryExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/UnresolvableException.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-  
jar/org/jaxen/expr/NodeComparator.java  
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/function/SubstringFunction.java

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- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/JaxenConstants.java
- \* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/JaxenRuntimeException.java

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\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/saxpath/base/TokenTypes.java

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\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/NamedAccessNavigator.java

\* /opt/ws\_local/PERMITS\_SQL/1093498622\_1600942376.18/0/jaxen-62-sources-

```
jar/org/jaxen/expr/iter/IterableAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/Context.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/XPath.java
*
/opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/iter/IterableAttributeAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/DefaultNameStep.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/ContextSupport.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/expr/iter/IterableChildAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
jar/org/jaxen/javabean/DocumentNavigator.java
```

# 1.190 tornado 5.1

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## 1.193 glib 2.60.4

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## 1.196 urllib3 1.23

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# Contributions to the urllib3 project

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\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

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\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

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\* Non-multipart encoding for POST requests

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- \* API unification of ssl\_version/cert\_reqs
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- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
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<<http://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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- \* Added abstraction for granular control of request fields
  
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- \* Support for non-ASCII header parameters
  
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- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>

- \* `HTTPResponse.tell()` for determining amount received over the wire
  
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- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<http://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in `pyopenssl contrib` module
- \* Configurable cipher suites in `pyopenssl contrib` module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <<https://github.com/jschneier>>
- \* `HTTPHeaderDict` and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<http://grunseid.com>>
- \* `source_address` support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library `io` module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added `Url.url`, which unparses a `Url`
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](https://github.com/sornars.com)>
- \* Support for using `ConnectionPool` and `PoolManager` as context managers.



- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
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- \* App Engine environment tests.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James  
Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.

- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors  
backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring

- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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# 1.198 apache-log4j 1.2.15

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\*

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\*

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/NamespaceSelector.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeSerializer.java
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jar/org/apache/axis/wsdl/toJava/FactoryProperty.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeSerializerFactory.java
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- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/XMLStringProvider.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPPart.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/servlet/ServletSecurityProvider.java
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- /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/servlet/ServletAuthenticatedUser.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Style.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/TypeMappingImpl.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/MapSerializerFactory.java
- \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/HexBinary.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/Options.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NegativeInteger.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/IDKey.java
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jar/org/apache/axis/encoding/ser/CalendarSerializer.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/Messages.java  
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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/FilterPrintWriter.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/AuthenticatedUser.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/Emitter.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/QNameSerializer.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/MimeMultipartDataSource.java  
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jar/org/apache/axis/wsdl/toJava/JavaStubWriter.java
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jar/org/apache/axis/encoding/CallbackTarget.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPFaultBuilder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/BaseTypeMapping.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/FaultInfo.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ImageDataHandlerDeserializer.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/compiler/CompilerError.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Chain.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/OctetStreamDataHandlerSerializer.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/DocumentDeserializerFactory.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPDocumentImpl.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/MimeMultipartDataHandlerDeserializer.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/TargetedChain.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/compiler/CompilerFactory.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/JWSHandler.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/script/Script.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/JAXRPCException.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/Element.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Name.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDDocumentation.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/schema/SchemaVersion2001.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPFaultCodeBuilder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/RPCHandler.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/BeanDeserializerFactory.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/RPCElement.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/NameSpaceConstants.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SourceDataHandlerSerializer.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utills/LockableHashtable.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/messaging/URLEndpoint.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/Generator.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/SimpleAuthorizationHandler.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/transport/java/JavaSender.java  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/urls/URLHashSet.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Entities.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/encoding/ser/MapSerializer.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/components/net/JSSocketFactory.java

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Deserializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaFaultWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/UndefinedDelegate.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/ImageHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/server/AxisServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/Target.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/MultiPartRelatedInputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPConnection.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/encoding/DeserializerFactory.java
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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ObjectHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utills/TeeOutputStream.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ShortHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/HandlerIterationStrategy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BaseDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/PortTypeEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utills/BeanPropertyDescriptor.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DefaultJAXRPC11TypeMappingImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Scope.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ByteHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/LongWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/QNameDeserializerFactory.java
*

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/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/encoding/DefaultSOAPEncodingTypeMappingImpl.java  
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 jar/org/apache/axis/encoding/AttributeSerializationContextImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/MessageContext.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/strategies/WSDLGenStrategy.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/ErrorHandler.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaWriter.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
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 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/FieldTarget.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/CDATAImpl.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/XMLType.java  
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jar/javax/xml/rpc/holders/BooleanWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/holders/IntegerWrapperHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPBodyElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Utils/IOUtils.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Utils/Messages.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/WSDL2Java.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/IntHolder.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

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jar/org/apache/axis/encoding/ser/ElementSerializer.java  
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 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/ByteArrayHolder.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/MimeHeaders.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/LogMessage.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/wsdl/gen/GeneratorFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/Transport.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/wsdl/toJava/Namespaces.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/wsdl/toJava/JavaBeanHelperWriter.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/encoding/ser/BaseFactory.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/providers/java/RPCProvider.java  
 \*  
 /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
 jar/org/apache/axis/utils/bytecode/ParamNameExtractor.java  
 \* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

```

jar/org/apache/axis/deployment/wsdd/WSDDChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/server/DefaultAxisServerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/DefaultCommonsHTTPClientProperties.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/symbolTable/MimeInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/CalendarSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/JAFDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SocketHolder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPHeaderElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SimpleAxisServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Part.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/StringHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/encoding/TypeMappingRegistry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/TypeMappingRegistry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/soap/SOAPService.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaUndeployWriter.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDDdocument.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedLong.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/MD5AttachHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/Base64Serializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/SecurityProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/server/AxisServerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/local/LocalSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPBody.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Notation.java
*

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/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/CLUtil.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/threadpool/ThreadPool.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/AttachmentsImpl.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/BaseSerializerFactory.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/SimpleProvider.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/EnvelopeBuilder.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/RB.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/SOAPMonitorHandler.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/TransportClientProperties.java  
\*  
/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/QSWSDLHandler.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDParameter.java  
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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/MessageElement.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/Utils.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/AxisClient.java  
\*  
/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AxisServlet.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utis/XMLUtils.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaBuildFileWriter.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utis/ByteArray.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/DeserializationContext.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaGeneratorFactory.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/Parser.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/SchemaUtils.java

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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentQuery.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/WSDDServiceWrapper.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentAdministrator.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/WSDDTTransportWrapper.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentAdministratorMBean.java  
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\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/http/AxisHTTPSsessionListener.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/management/ServiceAdmin.java  
\*  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/management/jmx/ServiceAdministratorMBean.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/Registrar.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/http/AutoRegisterServlet.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/management/jmx/ServiceAdministrator.java  
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/fromJava/Types.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfoChain.java
*
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jar/org/apache/axis/transport/jms/InvokeException.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/jms/InvokeTimeoutException.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/jms/JMSSender.java  
\*  
/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Handler.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/jms/JMSConnectorManager.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/jms/JMSURLHelper.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/jms/JMSTransport.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/transport/jms/JMSConnectorFactory.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-  
jar/org/apache/axis/components/jms/JMSVendorAdapterFactory.java  
\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/MapUtils.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSListener.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/SonicMQVendorAdapter.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSURLConnection.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JNDIVendorAdapter.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnector.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/TopicConnector.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JMSVendorAdapter.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSEndpoint.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConstants.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/QueueConnector.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Subscription.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSWorker.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/BeanVendorAdapter.java

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\*/

Found in path(s):

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/handlers/soap/MustUnderstandChecker.java  
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```
/*
 * XmlBeanDeserializer.java
 *
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 * limitations under the License.
 *
 * Original author: Jonathan Colwell
 */
```

Found in path(s):

```
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/xbeans/XmlBeanDeserializer.java
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```

```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
```

```

jar/org/apache/axis/deployment/wsdd/WSDDFatalException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/SimpleValueSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/ServiceDesc.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedByteHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/bytecode/ChainedParamReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/SOAPConnectionImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/DurationHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/JWSClassLoader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/OperationDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/WSDDEngineConfiguration.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/EngineConfigurationFactoryFinder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SecureSocketFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/URIHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/YearMonthHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/JavaServiceDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/TimeHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/TokenHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedLongHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SocketFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/ServletEndpointContextImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Year.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/EngineConfigurationFactoryDefault.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/ServletEngineConfigurationFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/CommonsHTTPClientPropertiesFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPHeader.java

```

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/Detail.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPFaultElement.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/AttributeDesc.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/NonNegativeIntegerHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/BasicClientConfig.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/YearHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DateHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/PositiveIntegerHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/AxisServiceConfigImpl.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDFault.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/FieldDesc.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/MonthDay.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/collections/SequencedHashMap.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/SocketFactoryFactory.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/EngineConfigurationFactoryServlet.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConnectionFactoryImpl.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleSerializerFactory.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConstants.java

\*

/opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/Text.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/EngineConfiguration.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DayHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/OctetStreamHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthDayHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Utils/SessionUtils.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/ConfigurationException.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/UnsignedShortHolder.java

\* /opt/cola/permits/1122085880\_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/HexBinaryHolder.java

```

*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAP11Constants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/AxisServletBase.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPBody.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NonPositiveIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/SOAP12Constants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NegativeIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPFaultReasonBuilder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/MessageFactoryImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/SOAPFactoryImpl.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Month.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ClassReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedIntHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NormalizedStringHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/YearMonth.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ParamReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/BasicServerConfig.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/TransportClientPropertiesFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Day.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/TypeDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Time.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/EngineConfigurationFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/ElementDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/DetailEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/DefaultEngineConfigurationFactory.java
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/*

```

```
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*
* Original author: Jonathan Colwell
*/
```

Found in path(s):

```
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/xbeans/XmlBeanSerializer.java
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```

```
/*
```

```
* ClasspathUtils.java
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*
*/
```

Found in path(s):

```
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/ClasspathUtils.java
```



# 1.214 free-type 1.0

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o [freetype-devel@nongnu.org](mailto:freetype-devel@nongnu.org)

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

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#

builds/unix/pkg.m4

#

```
docs/FTL.TXT
docs/GPLv2.TXT
#
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
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
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
#
#
EOF
```

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Version 2, June 1991

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## 1.219 curl 7.61.0

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```
WEV @@ WEV[B "1
```

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x ?"U@,5 @mISmIN<GimCN7g1u|E  
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 ./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

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 ./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

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## 1.221 nashorn 1.8.0\_282-b08



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## 1.222 libidn 2.0.5

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```
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*
* This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50
*
* taken from Mark Leisher's xmbdfed package
*
*/
```

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|                | GL/gltext.h        | Khronos        |
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include/GL/glex.h  
include/GL/glxext.h  
include/GL/wglxext.h :

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete

core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publicly distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*
- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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- \*
- \* Copyright 1997 Christopher Evans (cevens@poppybank.com)
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----  
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-----

The remaining code was written by many people associated with the  
Info-ZIP group, with large contributions from (but not limited to):  
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename  
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),  
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine  
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows  
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and  
others. See the file CONTRIBS in the source distribution for a much  
more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

---

# 1.227 sysv-init 2.88

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- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.228 shared-mime-info 1.1

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## The Unicode Standard, Unicode Character Database, Version 13.0.0

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/*
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 *
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\*\*\*\*\*

----  
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Mesa 3-D  
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include/GL/glxt.h
include/GL/wglxt.h :
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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lib/hcrypto/test\_dh.c

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## 1.236 json-glib 1.4.2

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## 1.237 pciutils 3.6.2

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# 1.247 dmidecode 3.1

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<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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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:



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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 1.248 golang 1.12.12

### 1.248.1 Available under license :

```
This is the official list of people who can contribute
(and typically have contributed) code to the Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
```

```
Names should be added to this file like so:
Individual's name <submission email address>
Individual's name <submission email address> <email2> <emailN>
#
An entry with multiple email addresses specifies that the
first address should be used in the submit logs and
that the other addresses should be recognized
as the
same person when interacting with Gerrit.

Please keep the list sorted.
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# 1.251 supervisor 4.2.0

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## 1.252 idna 2.7

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Found in path(s):

```
* /opt/cola/permits/1155055883_1618924927.29/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/LICENSE.rst
```

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

```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
 python_version = sys.version_info[:2]
```

```
 if python_version < (2,6):
```

```
 raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
 package_data = { }
```

```
 exec(open('idna/package_data.py').read(), package_data)
```

```
 arguments = {
```

```
 'name': 'idna',
```

```
 'packages': ['idna'],
```

```
 'version': package_data['__version__'],
```

```
 'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
 'author': 'Kim Davies',
```

```
 'author_email': 'kim@cynosure.com.au',
```

```
 'license': 'BSD-like',
```

```
 'url': 'https://github.com/kjd/idna',
```

```
 'classifiers': [
```

```
 'Development Status :: 5 - Production/Stable',
```

```
 'Intended Audience :: Developers',
```

```
 'Intended Audience :: System Administrators',
```

```
 'License :: OSI Approved :: BSD License',
```

```
 'Operating System :: OS Independent',
```

```
 'Programming Language :: Python',
```

```
 'Programming Language :: Python :: 2.6',
```

```
 'Programming Language :: Python :: 2.7',
```

```
 'Programming Language :: Python :: 3',
```

```
 'Programming Language :: Python :: 3.3',
```

```
 'Programming Language :: Python :: 3.4',
```

```
 'Programming Language :: Python :: 3.5',
```

```

 'Programming Language :: Python :: 3.6',
 'Topic :: Internet :: Name Service (DNS)',
 'Topic :: Software Development :: Libraries :: Python Modules',
 'Topic :: Utilities',
],
'test_suite':
'tests',
}

setup(**arguments)

if __name__ == '__main__':
 main()

```

Found in path(s):

\* /opt/cola/permits/1155055883\_1618924927.29/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py

# 1.253 meld 2.0.1

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Contributors

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- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

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## 1.254 docker

# 18.09.0+git489b8eda6674523df8b82a210399b

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package licensing

```
import (
 "context"
 "crypto/hmac"
 "crypto/sha256"
 "encoding/base64"
 "encoding/json"
 "fmt"
 "time"

 "github.com/docker/libtrust"
 "github.com/docker/licensing/lib/errors"
 "github.com/docker/licensing/lib/go-clientlib"
 "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
 url := c.baseURI
 url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

 license := new(model.IssuedLicense)
 if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
 return nil, err
 }

 return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
 keyID := license.KeyID
 privateKey := license.PrivateKey

 authorization, err := c.getAuthorization(ctx,
 license)
 if err != nil {
 return nil, err
 }
}
```

```

// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
 err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
 return nil, errors.WithStack(err).With(errors.Fields{
 "key_id": keyID,
 })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
 return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": keyID,
 }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)

```

```

if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
 return nil, errors.Wrap(err, errors.Fields{
 "key_id": keyID,
 })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
 for _, publicKey := range c.publicKeys {
 if key.KeyID() == publicKey.KeyID() {
 return true
 }
 }
 return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
 decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
 if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
 "key_id": license.KeyID,
 }, "decoding license authorization
failed")
 }
 return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
 tokenBytes, err := base64.URLEncoding.DecodeString(token)
 if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
 }

 generatedToken, err := generateToken(message, privateKey)
 if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
 }
}

```



```

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
 return errors.Forbidden(errors.Fields{"token": token},
"invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
 key, err := base64.URLEncoding.DecodeString(privateKey)
 if err != nil {
 return "", errors.Wrap(err, errors.Fields{"msg": message})
 }

 h := hmac.New(sha256.New, key)
 h.Write([]byte(message))
 return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed
```

```
// json blob.
```

```
type CheckResponse struct {
```

```
 Expiration time.Time `json:"expiration"`
```

```
 Token string `json:"token"`
```

```
 MaxEngines int `json:"maxEngines"`
```

```
 ScanningEnabled bool `json:"scanningEnabled"`
```

```
 Type string `json:"licenseType"`
```

```
 Tier string `json:"tier"`
```

```
}
```

```
// IssuedLicense represents an issued license
```

```
type IssuedLicense struct {
```

```
 KeyID string `json:"key_id"`
```

```
 PrivateKey string `json:"private_key"`
```

```
 Authorization string `json:"authorization"`
```

```
}
```

```
// Valid returns true if the License is syntactically valid, false otherwise
```

```
func (l *IssuedLicense) Valid() (bool, string) {
```

```
 if l.KeyID == "" {
```

```
 return false, "empty key_id"
```

```
 }
```

```
 if l.PrivateKey == "" {
```

```
 return false, "empty private_key"
```

```
 }
```

```
 if l.Authorization == "" {
```

```
 return false, "empty authorization"
```

```
 }
```

```
return true, ""
}
```

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Common libraries shared by Prometheus Go components.

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package formatter

```
import (
 "bytes"
 "encoding/json"
 "strings"
 "testing"
 "time"

 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
 "gotest.tools/assert"
```

is "gotest.tools/assert/cmp"

)

```
func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context Context
expected string
}{
// Errors
{
Context{Format: "{{InvalidFunction}}"},
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
Context{Format: NewSubscriptionsFormat("table", false)},
`NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2 owner2 productid2 2020-01-01 10:00:00 +0000
UTC compstring
`,
},
{
Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
{
Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`,
},
},
}
```

```

// Raw Format
{
 Context{Format: NewSubscriptionsFormat("raw", false)},
 `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
 Context{Format: NewSubscriptionsFormat("raw", true)},
 `license: id1
license: id2
`,
},
// Custom Format
{
 Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
 `owner1
owner2
`,
},
}

```

```

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
 subscriptions
:= []licenseutils.LicenseDisplay{
 {
 Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID: "id1",
 Name: "name1",
 ProductID: "productid1",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 10,
 },
 },
 },
 },
}

```

```

 },
 },
 ComponentsString: "compstring",
 },
 {
 Num: 2,
 Owner: "owner2",
 Subscription: model.Subscription{
 ID: "id2",
 Name: "name2",
 ProductID: "productid2",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 20,
 },
 },
 },
 ComponentsString: "compstring",
 },
 }
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
 assert.Error(t, err, testcase.expected)
} else {
 assert.Check(t,
is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
 {
 Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID: "id1",
 Name: "name1",
 ProductID: "productid1",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",

```

```

 Value: 10,
 },
},
ComponentsString: "compstring",
},
{
 Num: 2,
 Owner: "owner2",
 Subscription: model.Subscription{
 ID: "id2",
 Name: "name2",
 ProductID: "productid2",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 20,
 },
 },
 },
 ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
{
 "Owner":
 "owner1",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id1",
 "Start": nil,
 "Name": "name1",
 "Num": float64(1),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name": "nodes",
 "value": float64(10),
 },
 },
 "ProductID": "productid1",
 "ProductRatePlan": "",
 "ProductRatePlanID": "",
 "State": "",
 "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
}

```

```

{
 "Owner": "owner2",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id2",
 "Start": nil,
 "Name": "name2",
 "Num": float64(2),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name":
 }
 },
 "nodes",
 "value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

out := &bytes.Buffer{}
err := SubscriptionsWrite(Context{Format: "{json .}"}, Output: out), subscriptions)
if err != nil {
 t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var m map[string]interface{}
 if err := json.Unmarshal([]byte(line), &m); err != nil {
 t.Fatal(err)
 }
 assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
 {Num: 1, Owner: "owner1"},
 {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{}
 err := SubscriptionsWrite(Context{Format: "{json .Owner}"}, Output: out), subscriptions)
 if

```

```
err != nil {
 t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var s string
 if err := json.Unmarshal([]byte(line), &s); err != nil {
 t.Fatal(err)
 }
 assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
```

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package formatter

import (

```

"time"

"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
)

const (
 defaultSubscriptionsTableFormat = "table
 {{{.Num}}}\t{{{.Owner}}}\t{{{.ProductID}}}\t{{{.Expires}}}\t{{{.ComponentsString}}}"
 defaultSubscriptionsQuietFormat = "{{{.Num}}}:{{{.Summary}}}"

 numHeader = "NUM"
 ownerHeader = "OWNER"
 licenseNameHeader = "NAME"
 idHeader = "ID"
 dockerIDHeader = "DOCKER ID"
 productIDHeader = "PRODUCT ID"
 productRatePlanHeader = "PRODUCT RATE PLAN"
 productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
 startHeader = "START"
 expiresHeader = "EXPIRES"
 stateHeader = "STATE"
 eusaHeader = "EUSA"
 pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
 switch source {
 case TableFormatKey:
 if quiet
 {
 return defaultSubscriptionsQuietFormat
 }
 return defaultSubscriptionsTableFormat
 case RawFormatKey:
 if quiet {
 return `license: {{{.ID}}}`
 }
 return `license: {{{.ID}}}\nname: {{{.Name}}}\nowner: {{{.Owner}}}\ncomponents: {{{.ComponentsString}}}\n`
 }
 return Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
 render := func(format func(subContext subContext) error) error {
 for _, sub := range subs {

```

```

licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
if err := format(licenseCtx); err != nil {
 return err
}
}
return nil
}
licenseCtx := licenseContext{}
licenseCtx.header = map[string]string{
 "Num": numHeader,
 "Owner": ownerHeader,
 "Name": licenseNameHeader,
 "ID": idHeader,
 "DockerID": dockerIDHeader,
 "ProductID": productIDHeader,
 "ProductRatePlan": productRatePlanHeader,
 "ProductRatePlanID":
productRatePlanIDHeader,
 "Start": startHeader,
 "Expires": expiresHeader,
 "State": stateHeader,
 "Eusa": eusaHeader,
 "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
 HeaderContext
 trunc bool
 l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
 return marshalJSON(c)
}

func (c *licenseContext) Num() int {
 return c.l.Num
}

func (c *licenseContext) Owner() string {
 return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
 return c.l.ComponentsString
}

```

```

func (c *licenseContext) Summary() string {
 return c.l.String()
}

func (c *licenseContext) Name() string {
 return c.l.Name
}

func (c *licenseContext) ID() string {
 return c.l.ID
}

func (c *licenseContext) DockerID() string {
 return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
 return c.l.ProductID
}

func (c *licenseContext)
ProductRatePlan() string {
 return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
 return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
 return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
 return c.l.Expires
}

func (c *licenseContext) State() string {
 return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
 return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
 // Dereference the pricing component pointers in the pricing components

```



```
// so it can be rendered properly with the template formatter
```

```
var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
 if spc == nil {
 continue
 }
 ret = append(ret, *spc)
}
return ret
}
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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Gocheck - A rich testing framework for Go

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## 1.257 runc 1.0.0-rc5

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## 1.258 pytz 2018.5

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCertificateFile.#

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## 1.262 pyasn1 0.4.4

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ASN.1 library for Python

=====

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 :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

### What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions](https://news.ycombinator.com/item?id=8871453) <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic



to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
.. toctree::
 :maxdepth: 2
```

```
/pyasn1/contents
```

#### Use case

-----

```
.. toctree::
```

:maxdepth: 2

/example-use-case

## Download & Install

-----

.. toctree::

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/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

..

toctree::

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/changelog

## License

-----

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/license

## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` \_  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` \_ at GitHub.

Alternatively, you could ask for help at

`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` \_  
or search

`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_  
mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson

\* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

\* `ITU standards

<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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## ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you



can use it along the lines of similar Python type (e.g. ASN.1  
`SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,

list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or

post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>)  
or try browsing pyasn1  
[mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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## 1.263 pyparsing 2.2.0

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |

|               |           |      |     |     |
|---------------|-----------|------|-----|-----|
| 2.0.1         | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1         | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2         | 2.1.1     | 2002 | PSF | yes |
| 2.1.3         | 2.1.2     | 2002 | PSF | yes |
| 2.2 and above |           |      |     |     |
| 2.1.1         | 2001-now  | PSF  |     | yes |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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=====  
Advice for new contributors  
=====

New contributor and not sure what to do? Want to help but just don't know how  
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`/intro/contributing``  
tutorial will give you an introduction to the tools and the workflow.

First steps  
=====

Start with these easy tasks to discover Django's development process.

\* \*\*Sign the Contributor License Agreement\*\*

The code that you write belongs to you or your employer. If your

contribution is more than one or two lines of code, you need to sign the `CLA`. See the `Contributor License Agreement FAQ` for a more thorough explanation.

#### \* \*\*Triage tickets\*\*

If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

#### \* \*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\*

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

#### \* \*\*Keep old patches up to date\*\*

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

#### \* \*\*Write some documentation\*\*

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. \_reports page: <https://code.djangoproject.com/wiki/Reports>

.. \_CLA: <https://www.djangoproject.com/foundation/cla/>

.. \_Contributor License Agreement FAQ: <https://www.djangoproject.com/foundation/cla/faq/>

.. \_unreviewed ticket: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

\* \*\*Pick a subject area that you care about, that you are familiar with, or that you want to learn about\*\*

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

\* \*\*Analyze tickets' context and history\*\*

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

\* \*\*Start small\*\*

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

\* \*\*If you're going to engage in a big task, make sure that your idea has support first\*\*

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

\* \*\*Be bold! Leave feedback!\*\*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without *you*!

\* \*\*Err on the side of caution when marking things Ready For Check-in\*\*

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**\*\*Wait for feedback, and respond to feedback that you receive\*\***

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**\*\*Be rigorous\*\***

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. [\\_easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1](https://code.djangoproject.com/query?status=!closed&easy=1)

.. [\\_new-contributors-faq:](#)

## FAQ

====

1. **\*\*This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?\*\*\***

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |[django-developers](#)| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.`

2. **\*\*I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?\*\*\***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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## 1.269 incremental 17.5.0

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Incremental

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# 1.270 walinuxagent 2.2.46

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# 1.271 vim 7.4.160

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\*uganda.txt\*    For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL    by Bram Moolenaar

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SUMMARY  
\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

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<http://www.vim.org/iccf/>  
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You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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==== begin of license ====

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Note:

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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further

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---

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods.

There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o.  
box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.  
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.  
Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If

you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:  
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.  
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is

the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

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Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

## 1.272 six 1.11.0-3.ph3

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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## 1.274 python-pip 19.0.3

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- Chris McDonough, 2011/02/16
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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member

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All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 3.0            | 2.6          | 2008      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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History

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

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Go support for Protocol Buffers - Google's data interchange format

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# 1.276 hd-parm 9.56

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## 1.280 syslog-ng 3.33.2

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base64.cpp and base64.h

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L. Peter Deutsch  
[ghost@aladdin.com](mailto:ghost@aladdin.com)

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utf8\_validation.hpp is adapted from code originally written by Bjoern Hoehrmann

<bjoern@hoehrmann.de>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

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base64.cpp and base64.h

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Ren Nyffenegger [rene.nyffenegger@adp-gmbh.ch](mailto:rene.nyffenegger@adp-gmbh.ch)

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.  
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a)

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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# 1.286 lvm2 2.02.180

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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```
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```

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
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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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## 1.295 lxc 3.1.0

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## 1.297 fdisk 2.32.1

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```
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CP#vMOoYL?6]2z({CLYj0
LFIU<>Q&}7!C}e6]]e`M,J}.dE,4hVmp
RsTk!Jr!Quo1OE|FfP+A}XBT9 \<
0<P9{>s\36R)m.S(bCb7S<DP(`ka")^oy`r)7I%tU6@AS.SMoOfF3whA!!WIMcK')e/eJ1F
g\B!W|j>jf_{JpP}oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#l$*w!:499X1il:"P+=22cmr3J}/0o9nlB?N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]-uf$Ng|"_W[0;
OXy[aB*"/_U~fQHO(3[b%o)+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxfIC
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rd>k\R>aXrvXS~"9=U$puaqQb;|k,RD5(fu&#
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1%QsS|11np#_(~*'uM%S61opMG`YfRXvY[R+t[BS=)d ;*!;._>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[
BS=)d ;*!;._>KfB }&ea)F~H#@|DExb
Fw=|
;}8SPT"_p;27 *,D-sS|11np#_(~*'uM%S61opMG`B=gD7-`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d
;*!;._>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*'uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;._>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d ;*!;._>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
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it
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```
<signature of Ty Coon>, 1 April 1989
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\*/

```
7zXZF!t/]o."w[7gp<G
H:Oed 18uyMQ9]FO6
87I8.mhGl^eb_X/UQKuB
)Cdk!B_M/tw|11np#_(~*uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxYm+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d;*!;_>KfBqxY(F|0.Ve%Q?
*sS|11np#_(~*u7gi)[IgYZ
```

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

The of the start-stop-daemon

- \* A rewrite
- of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.300 eudev 3.2.5

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## 1.301 libcgrouop 1.0.41

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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# 1.306 python-setuptools 40.0.0

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