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Text Part Number: 78EE117C99-1893071661

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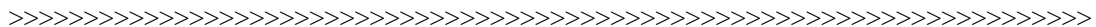
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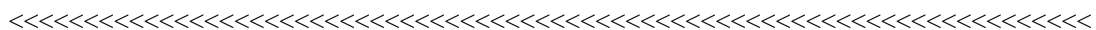
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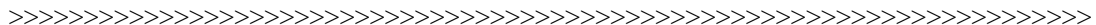
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2000-05-05

## 1.3 protobuf-java 3.11.4

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 */
/**
 * This is a special exception that is used to stop parsing when
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 */
```

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```
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- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_zh.java
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- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java  
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/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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*

```

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\*/

/\*

\* \$Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas \$

\*/

package org.apache.xalan;

/\*\*

\* Administrative

class to keep track of the version number of

\* the Xalan release.

\* <P>This class implements the upcoming standard of having

\* org.apache.project-name.Version.getVersion() be a standard way

\* to get version information. This class will replace the older

\* org.apache.xalan.processor.Version class.</P>

\* <P>See also: org/apache/xalan/res/XSLTInfo.properties for

\* information about the version of the XSLT spec we support.</P>

\* @xsl.usage general

\*/

public class Version

{

/\*\*

\* Get the basic version string for the current Xalan release.

\* Version String formatted like

\* <CODE><B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B>nn]</CODE>.

\*

\* Futurework: have this read version info from jar manifest.

\*

\* @return String denoting our current version

\*/

public static String getVersion()

{

return getProduct()+" "+getImplementationLanguage()+" "

+getMajorVersionNum()+". "+getReleaseVersionNum()+". "

+( (getDevelopmentVersionNum() > 0) ?

("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));

}

/\*\*

\* Print the processor version to the command line.

\*

\* @param argv command line arguments, unused.



```

*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *
 *     may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.

```

```

*/
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return
@version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

```

```
}  
}
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
```

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```
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```

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```

```
*/
```

```
/*
```

```
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
```

```
*/
```

```
package org.apache.xml.serializer;
```

```
/**
```

```
* Administrative class to keep track of the version number of
```

```
* the Serializer release.
```

```
* <P>This class implements the upcoming standard of having
```

```
* org.apache.project-name.Version.getVersion() be a standard way
```

```
* to get version information.</P>
```

```
* @xsl.usage general
```

```
*/
```

```
public final class Version
```

```
{
```

```
/**
```

```
* Get the basic version string for the current Serializer.
```

```
* Version String formatted like
```

```
* <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
```

```
*
```

```
* Futurework: have this read version info from jar manifest.
```

```
*
```

```
* @return String denoting our current version
```

```

*/
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+". "+getReleaseVersionNum()+". "
        +(getDevelopmentVersionNum() > 0) ?
        ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command
line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

```

```

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This
changes when:
 *     - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development
drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *

```

```

*      Each 'D' drops can contain functional enhancements as
*      well as defect fixes. 'D' drops may not be as stable as
*      the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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*/

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/FunctionTable.java
```

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*/
/**
* Major version number.
* Version number. This changes only when there is a
*   significant, externally apparent
enhancement from
*   the previous release. 'n' represents the n'th
*   version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
```

\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/processor/XSLProcessorVersion.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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\*/

/\*

\* \$Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas \$

\*/

/\*

\* @author Jacek Ambroziak

\* @author

Santiago Pericas-Geertsen

\* @author Morten Jorgensen

\* @author G. Todd Miller

\*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;

import java.util.Vector;

import java.io.StringReader;

import java\_cup.runtime.\*;

import org.apache.xml.dtm.DTM;

import org.apache.xalan.xsltc.DOM;

import org.apache.xml.dtm.Axis;



```

import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern
was declared.
     */
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
        _xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
        return _parser.getQNameIgnoreDefaultNs(name);
    }

```

```

}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This
method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
}
else {
QName name = (QName)test;
boolean setPriority = false;

```

```

    if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xslt.registerNamespacePrefix(name);
    }
    else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
predicates = new Vector(2);
    }

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

    predicates.add(
new Predicate(
    new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri))););
}

if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
: _xslt.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
result.setPriority(-0.25);
}

```

```

    return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
return (name.toString().equals("*"))
? -1
: _xsltc.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.

```

```

*

*/
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR,
        error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {

```

```

    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
}
}

```

```

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant
result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}
:}

```

```

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

```

```

non terminal SyntaxTreeNode TopLevel;

```

```

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non
terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;

```

non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;  
non terminal Pattern Pattern;  
non terminal Pattern LocationPathPattern;  
non terminal StepPattern ProcessingInstructionPattern;  
non terminal RelativePathPattern RelativePathPattern;  
non terminal StepPattern StepPattern;  
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;  
non terminal QName QName, FunctionName, VariableName;  
non terminal Integer AxisName, AxisSpecifier;  
non terminal  
Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;  
precedence left OR;  
precedence left AND;  
precedence nonassoc EQ, NE;  
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;  
precedence left DIV, MOD, MULT;  
precedence left DOLLAR;  
precedence left ATSIGN;  
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern

{: RESULT = pattern; :}

| EXPRESSION Expr:expr

{: RESULT = expr; :};

/\* ----- Patterns ----- \*/

Pattern ::= LocationPathPattern:lpp

{: RESULT = lpp; :}

| LocationPathPattern:lpp VBAR Pattern:p

{: RESULT = new AlternativePattern(lpp, p); :};

```

LocationPathPattern ::= SLASH
    { : RESULT = new AbsolutePathPattern(null); : }

    | SLASH RelativePathPattern:rpp
    { : RESULT = new AbsolutePathPattern(rpp); : }

    | IdKeyPattern:ikp

    { : RESULT = ikp; : }

    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    { : RESULT = new ParentPattern(ikp, rpp); : }

    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(ikp, rpp); : }

    | DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(rpp); : }

    | RelativePathPattern:rpp
    { : RESULT = rpp; : };

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    { : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
      : }

    | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    { : RESULT = new KeyPattern(l1, l2); : };

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    { : RESULT = new ProcessingInstructionPattern(l); : };

RelativePathPattern ::= StepPattern:sp
    { : RESULT = sp; : }

    | StepPattern:sp SLASH RelativePathPattern:rpp
    { : RESULT
= new ParentPattern(sp, rpp); : }

    | StepPattern:sp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(sp, rpp); : };

StepPattern ::= NodeTestPattern:nt
    { :
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
: }

```



```

    | NodeTestPattern:nt Predicates:pp
    { :
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
    :}

    | ProcessingInstructionPattern:pip
    { : RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
    { : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

    | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
    { :
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
    :}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
    { :
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    { :
RESULT = pip; // TODO: report error if axis is attribute
    :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
    { :
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
    { : RESULT = nt; :}

| NODE
    { : RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
    { : RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
    { : RESULT = new Integer(NodeTest.COMMENT); :}

| PI

```

```

    { : RESULT = new Integer(NodeTest.PI); : };

NameTestPattern ::= STAR
    { : RESULT = null; : }

    | QName:qn
    { : RESULT = qn; : };

ChildOrAttributeAxisSpecifier ::= ATSIGN

    { : RESULT = new Integer(Axis.ATTRIBUTE); : }

    | CHILD DCOLON
    { : RESULT = new Integer(Axis.CHILD); : }

    | ATTRIBUTE DCOLON
    { : RESULT = new Integer(Axis.ATTRIBUTE); : };

Predicates ::= Predicate:p
    { :
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    : }

    | Predicate:p Predicates:pp
    { : pp.insertElementAt(p, 0); RESULT = pp; : };

Predicate ::= LBRACK Expr:e RBRACK
    { :
    RESULT = new Predicate(e);
    : };

/* ----- Expressions ----- */

Expr ::= OrExpr:ex
    { : RESULT = ex; : };

OrExpr ::= AndExpr:ae
    { : RESULT = ae; : }

    | OrExpr:oe OR AndExpr:ae
    { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
    { : RESULT = e; : }

    | AndExpr:ae AND EqualityExpr:ee

```

```

    {: RESULT = new LogicalExpr(LogicalExpr.AND,
ae, ee); :};

EqualityExpr ::= RelationalExpr:re
    {: RESULT = re; :}

    | EqualityExpr:ee EQ RelationalExpr:re
    {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

    | EqualityExpr:ee NE RelationalExpr:re
    {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
    {: RESULT = ae; :}

    | RelationalExpr:re LT AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

    | RelationalExpr:re GT AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

    | RelationalExpr:re LE AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

    | RelationalExpr:re GE AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
    {: RESULT = me; :}

    | AdditiveExpr:ae PLUS MultiplicativeExpr:me
    {: RESULT = new BinOpExpr(BinOpExpr.PLUS,
ae, me); :}

    | AdditiveExpr:ae MINUS MultiplicativeExpr:me
    {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
    {: RESULT = ue; :}

    | MultiplicativeExpr:me MULT UnaryExpr:ue
    {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

    | MultiplicativeExpr:me DIV UnaryExpr:ue
    {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

    | MultiplicativeExpr:me MOD UnaryExpr:ue
    {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

```

UnaryExpr ::= UnionExpr:ue

{: RESULT = ue; :}

| MINUS UnaryExpr:ue

{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe

{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest

{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp

{: RESULT = lp; :}

| FilterExpr:fexp

{: RESULT = fexp; :}

| FilterExpr:fexp

SLASH RelativeLocationPath:rlp

{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp

{:

//

// Expand '/' into '/descendant-or-self::node()/' or

// into '/descendant-or-self::\*/'

//

int nodeType = DOM.NO\_TYPE;

if (rlp instanceof Step &&

parser.isElementAxis(((Step) rlp).getAxis()))

{

nodeType = DTM.ELEMENT\_NODE;

}

final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);

FilterParentPath fpp = new FilterParentPath(fexp, step);

fpp = new FilterParentPath(fpp, rlp);

if (fexp instanceof KeyCall == false) {

fpp.setDescendantAxis();

}

RESULT = fpp;

:};

LocationPath ::= RelativeLocationPath:rlp

{: RESULT = rlp; :}

| AbsoluteLocationPath:alp

```
{: RESULT = alp; :};
```

```
RelativeLocationPath ::= Step:step
```

```
{: RESULT  
= step; :}
```

```
| RelativeLocationPath:rlp SLASH Step:step
```

```
{:  
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {  
    RESULT = step;    // Remove '.' from the middle  
}  
else if (((Step) step).isAbbreviatedDot()) {  
    RESULT = rlp;    // Remove '.' from the end  
}  
else {  
    RESULT =  
        new ParentLocationPath((RelativeLocationPath) rlp, step);  
}  
:}
```

```
| AbbreviatedRelativeLocationPath:arlp
```

```
{: RESULT = arlp; :};
```

```
AbsoluteLocationPath ::= SLASH
```

```
{: RESULT = new AbsoluteLocationPath(); :}
```

```
| SLASH RelativeLocationPath:rlp
```

```
{: RESULT = new AbsoluteLocationPath(rlp); :}
```

```
| AbbreviatedAbsoluteLocationPath:aalp
```

```
{: RESULT = aalp; :};
```

```
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
```

```
{:  
    final Step right = (Step)step;  
    final  
int axis = right.getAxis();  
    final int type = right.getNodeType();  
    final Vector predicates = right.getPredicates();  
  
if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {  
    // Compress '//child:E' into 'descendant::E' - if possible  
    if (predicates == null) {  
        right.setAxis(Axis.DESCENDANT);  
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {  
            RESULT = right;  
        }  
        else {
```

```

        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
}
else {
    // Expand '//step' -> 'descendant-or-self::*step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

        Step left = new Step(Axis.DESCENDANTORSELF,
            DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
            DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);

    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp

```

{:
//
// Expand '/' into '/descendant-or-self::node()' or
// into /descendant-or-self::*

```

```

//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT =
new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
:};

```

Step ::= NodeTest:ntest

```

{:
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
RESULT = new Step(Axis.CHILD,
    parser.findNodeType(Axis.CHILD, ntest),
    null);
    }
:}

```

| NodeTest:ntest Predicates:pp

```

{:
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest), pp);
    }
:}

```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp

```

{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    pp);
:}

```

| AxisSpecifier:axis NodeTest:ntest

```

{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);
:}

```

:]

| AbbreviatedStep:abbrev  
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON  
{: RESULT = an; :}

| ATSIGN  
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR  
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF  
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE  
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD  
{: RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT  
{: RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF  
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING  
{: RESULT = new  
Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING  
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE  
{: RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT  
{: RESULT = new Integer(Axis.PARENT); :}

| PRECEDING  
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING  
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}



```

| SELF
{: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{:
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
: new LiteralExpr(string, namespace);
:}

| INT:num
{:
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {

```

```

    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());

    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}
:}

```

```

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

```

```

| FunctionCall:fc
{: RESULT = fc; :};

```

VariableReference ::= DOLLAR VariableName:varName

```

{:
// An empty QName prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
    else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
:};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {

```

```

    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

```

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN

```

{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {

```

```

    RESULT = new NumberCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

RESULT = new NameCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
    RESULT = new CeilingCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, arg1);
}
}

```

```

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
};

```

NonemptyArgumentList

::= Argument:arg

```

{:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}

```

```

| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

```

FunctionName ::= QName:fname

```

{:

```

```

    RESULT = fname;
};

VariableName ::= QName:vname
    {
    RESULT = vname;
};

Argument ::= Expr:ex
    { RESULT = ex; };

NodeTest ::= NameTest:nt
    { RESULT = nt; ;}

    | NODE
    { RESULT = new Integer(NodeTest.ANODE); ;}

    | TEXT
    { RESULT = new Integer(NodeTest.TEXT); ;}

    | COMMENT
    { RESULT = new Integer(NodeTest.COMMENT); ;}

    | PIPARAM LPAREN Literal:l RPAREN
    {
    QName name = parser.getQNameIgnoreDefaultNs("name");
    Expression exp = new EqualityExpr(Operators.EQ,
        new NameCall(name),
        new LiteralExpr(l));
    Vector predicates = new Vector();
    predicates.addElement(new Predicate(exp));
    RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    ;}

    | PI
    { RESULT = new Integer(NodeTest.PI); ;};

NameTest ::= STAR
    { RESULT = null; ;}

    | QName:qn
    { RESULT = qn; ;};

QName ::= QNAME:qname
    { RESULT = parser.getQNameIgnoreDefaultNs(qname); ;}

    | DIV
    { RESULT = parser.getQNameIgnoreDefaultNs("div"); ;}

```

| MOD  
{: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY  
{: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR  
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE  
{: RESULT  
= parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD  
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT  
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING  
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING  
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE  
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT  
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING  
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING  
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID

```
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

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

```
# to you under the Apache License, Version 2.0 (the "License");  
# you may not use this file except in compliance with the License.  
# You may obtain a copy of the License at  
# http://www.apache.org/licenses/LICENSE-2.0  
# distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/Encodings.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/XMLEntities.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/output_text.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/res/XSLTInfo.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/output_xml.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/Makefile.inc  
*
```

```
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/output_unknown.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/HTMLEntities.properties  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/output_html.properties
```

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```
/*
```

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\*/  
// is found, then throw a special exception in order to terminate

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/processor/TransformerFactoryImpl.java  
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\*/  
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/ToHTMLStream.java  
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Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java  
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Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html  
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\*/

/\*\*

\* Execute the proprietary document-location() function, which returns  
\* a node set of documents.  
\* @xsl.usage advanced  
\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java  
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```

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* limitations under the License.
*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

    /**
     * Print the processor version to the command line.
     *
     * @param argv command line arguments, unused.
     */
    public static void main(String argv[])
    {
        System.out.println(S_VERSION);
    }

    /**
     * Constant name of product.
     */
    public static final String PRODUCT = "Xalan";

    /**
     * Implementation Language.
     */
    public static final String LANGUAGE = "Java";

    /**
     * Major version number.
     * Version number. This changes only when there is a
     * significant, externally apparent enhancement from
     * the previous release. 'n' represents the n'th
     * version.
     *
     * Clients should carefully consider
     the implications
     * of new versions as external interfaces and behaviour

```

```

*      may have changed.
*/
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *      - a new set of functionality is to be added, eg,
 *        implementation of a new W3C specification.
 *      - API or behaviour change.
 *      - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.

```

```

* <P>Semantics of the version string are
identical to the Xerces project.</P>
*/
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
    +VERSION+"."+RELEASE+"."
    +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
    : (""+MAINTENANCE));

}

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

```

```

/*
* @author Jacek Ambroziak
* @author
Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

```

```

package org.apache.xalan.xsltc.compiler;

```

```

import java_cup.runtime.Symbol;
%%
%cup

```

```

%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
    }

    /**
     * If symbol is not followed by ':' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :(

        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is ':' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * name instead of a keyword (Jira-1912).
     */
    Symbol disambiguateOperator(int ss) throws Exception {
        switch (last) {

```

```

    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case
sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:

case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:

```



```

case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

```

```

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

```

```

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

```

```

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

```

```

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new
Symbol(ss, value);
}
%}

```

```

%eofval{
return newSymbol(sym.EOF);
%eofval}

```

```

%yylexthrow{
Exception
%yylexthrow}

```

```

Letter={BaseChar}||{Ideographic}

```

```

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-

```

\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"\_|{NCNameStartChar})({NCNameChar})\*

NCNameChar={Letter}|{Digit}|"."-""\_|{CombiningChar}|{Extender}|{NCNameStartChar}|  
[\u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-  
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-  
\uFFFF] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*"          { return disambiguateStar(); }
"/"          { return newSymbol(sym.SLASH); }
"+"          { return newSymbol(sym.PLUS); }
"-"          { return newSymbol(sym.MINUS); }
"div"        { return disambiguateOperator(sym.DIV); }
"mod"        { return disambiguateOperator(sym.MOD); }
"::"         { return newSymbol(sym.DCOLON); }
","          { return newSymbol(sym.COMMA); }
"@"          { return newSymbol(sym.ATSIGN); }
".."         { return newSymbol(sym.DDOT); }
"|"          { return newSymbol(sym.VBAR); }
"$"          { return newSymbol(sym.DOLLAR); }
"/"          { return newSymbol(sym.DSLASH); }
"="          { return newSymbol(sym.EQ); }
"!="         { return newSymbol(sym.NE); }
"<"          { return newSymbol(sym.LT); }
">"          { return newSymbol(sym.GT); }
"<="         { return newSymbol(sym.LE); }
">="         { return newSymbol(sym.GE); }
"id"         { return disambiguateAxisOrFunction(sym.ID); }
"key"        { return disambiguateAxisOrFunction(sym.KEY); }
"text()"     { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()"     { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()"  { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction"
{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
```

```

"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"          { return disambiguateOperator(sym.OR); }
"and"         { return disambiguateOperator(sym.AND); }
"child"       { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"   { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"    { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"   { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace"   { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"      { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"   { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"        { return disambiguateAxisOrFunction(sym.SELF); }
"["           { return newSymbol(sym.LBRACK); }
"]"           { return newSymbol(sym.RBRACK); }
"("           { return newSymbol(sym.LPAREN); }
")"           { return newSymbol(sym.RPAREN); }
"<PATTERN>"   { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*"     { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\"[^\"]*\'    { return newSymbol(sym.Literal,
    yytext().substring(1,
    yytext().length() - 1)); }
{Digit}+     { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
"."          { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?*"      { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?@"*    { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]         { /* ignore white space. */ }
.                   { throw new Exception(yytext()); }

```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex
```

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

/\*

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*/
// Proprietary, built in functions
/** current function string (Proprietary). */

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java

```

## 1.5 trilead-ssh 1.0.0

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## 1.6 ganymed-ssh2 262

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## 1.7 trilead-ssh 1.0.0-build 222

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