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jar/com/sun/xml/fastinfofet/util/CharArrayArray.java
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jar/org/jvnet/fastinfofet/FastInfofetSource.java
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jar/com/sun/xml/fastinfofet/sax/AttributesHolder.java
```

* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/stax/events/StAXEventAllocatorBase.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithmFactory.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/stax/events/Util.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/stax/events/StAXEventReader.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/sax/FastInfosetReader.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/FastInfosetParser.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/stax/FastInfosetStreamReader.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmContentHandler.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/stax/factory/StAXInputFactory.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/util/ValueArrayResourceException.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/util/CharArrayString.java
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* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/algorithm/IEEE754FloatingPointEncodingAlgorithm.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/vocab/ParserVocabulary.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/Vocabulary.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/util/CharArrayIntMap.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/sax/helpers/FastInfosetDefaultHandler.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmAttributes.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/Decoder.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/algorithm/HexadecimalEncodingAlgorithm.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/tools/XML_DOM_FI.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/tools/SAXEventSerializer.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/util/CharArray.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/tools/FI_StAX_SAX_Or_XML_SAX_SAXEvent.java

* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/tools/FI_SAX_XML.java
* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/stax/EventLocation.java
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* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/sax/ExtendedContentHandler.java
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* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/tools/FI_DOM_Or_XML_DOM_SAX_SAXEvent.java
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- * /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/UnparsedEntity.java
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- * /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/stax/events/NamespaceBase.java
- * /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/ExternalVocabulary.java
- * /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/QualifiedName.java
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- * /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/DecoderStateTables.java
- * /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/com/sun/xml/fastinfoset/tools/TransformInputOutput.java
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* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-jar/org/jvnet/fastinfoset/sax/helpers/EncodingAlgorithmAttributesImpl.java

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1.3.2.4 2009-05-13 08:53:01 oleksiys Exp \$

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* /opt/cola/permits/1006672192_1620405886.95/0/fastinfoset-1-2-12-sources-
jar/com/sun/xml/fastinfoset/org/apache/xerces/util/XMLChar.java

1.4 cxf-rt-transport-local 2.7.4

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1.5 asm 3_3_1

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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/util/Traceable.java

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zip/org/objectweb/asm/signature/package.html

* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/tree/analysis/package.html
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zip/org/objectweb/asm/package.html
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/util/package.html
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/attrs/package.html
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zip/org/objectweb/asm/commons/package.html

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gz/doc/javadoc/user/org/objectweb/asm/xml/asm-xml.dtd
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/xml/asm-xml.dtd

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- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/jasmin/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/annotations/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/jbfc/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/compile/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/dependencies/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/analysis/build.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/adapt/build.xml
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/InsnNode.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/commons/JSRInlinerAdapter.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/analysis/Interpreter.java

* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/Item.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/AnnotationNode.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/tree/analysis/SmallSet.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
 zip/org/objectweb/asm/xml/SAXAnnotationAdapter.java
 * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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 * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
 zip/org/objectweb/asm/xml/SAXAdapter.java
 * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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 * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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 * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
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 * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
 zip/org/objectweb/asm/xml/ASMContentHandler.java

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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/jbfc/src/org/objectweb/asm/jbfc/BFCCompiler.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/compile/src/Expression.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/annotations/src/Annotations.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/dependencies/src/org/objectweb/asm/depend/DependencyTracker.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/dependencies/src/org/objectweb/asm/depend/DependencyVisitor.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/helloworld/src/Helloworld.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/jbfc/src/org/objectweb/asm/jbfc/BFCCompilerTest.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/jbfc/src/jbfc.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/adapt/src/ArraySet.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/attributes/src/Attributes.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/annotations/src/NotNull.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/compile/src/Compile.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/adapt/src/Adapt.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-
 gz/examples/jasmin/src/JasminifierClassAdapter.java
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 zip/org/objectweb/asm/commons/InstructionAdapter.java

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- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/linenumbers.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/annotate.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/strip.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/profile.xml
- * /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/copy.xml

1.6 txw2 20110809

1.7 libxml2 2.7.6-14.el6_5.2

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1.8 xsdlib 2010.1

1.9 gtk 2.24.23-8.el6

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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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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 writing it). Whether that is true depends on what the Library does

and what the program that uses the Library does.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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.

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.

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.

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.)

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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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Preamble

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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.

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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(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

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1.10 libtool 2.2.6 15.5.el6

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1.11 httpcomponents-core 4.3

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<a href="index.html"></a>
</div>

<div class="above_nav"></div>

<div class="navbar">
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```

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1.14 attr 2.4.44-7.el6

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1.17 wstx-asl 3.2.9

1.18 xmltooling 1.3.4

1.19 openssh 5.3

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```
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*/
```

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */
```

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;
```

```
typedef unsigned int nfds_t;
```

```
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
```

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* @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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```

```
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/*
```

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*/
```

```
#ifndef HAVE_SETRESGID
```



```

int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*
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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

```

```
/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

1.20 httpcomponents-core 4.4.5

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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 writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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.

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.

3. You may opt to apply the terms of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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.

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) 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.

d) 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 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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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 library's name and a brief idea of what it does.>  
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```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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!

1.25 jersey-client 1.12

1.26 saaj 1.2

1.26.1 Available under license :

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1.27 jersey-server 1.18

1.28 gir1.2-gdkpixbuf-2.0 2.18.9

1.28.1 Available under license :

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can use it too, but we suggest you first think carefully about whether
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strategy to use in any particular case, based on the explanations below.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using

a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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.

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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"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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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:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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.

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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in

these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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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1.29 coreutils 8.4-46.el6

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1.32 xsom 20110809

1.33 apache-log4j 1.2.7

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1.36 zip 3.0-1.el6

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Carriage_Control carriage_return
Format stream_lf

1.37 pcre 8.12

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Written by: Philip Hazel
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1.38 iptables 1.4.7-19.el6

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```

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```
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```

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1.39 httpcomponents-client 4.5.1

1.39.1 Available under license :

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Found in path(s):

* /opt/cola/permits/161783929_1651084162.18/0/httpcomponents-client-4-5-1-zip/httpcomponents-client-4.5.1.pom

1.40 string-template 3.2.1

1.41 jersey 1.12

1.41.1 Available under license :

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```

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1.44 commons-cli 1.1

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1.45 cxf-rt-features-clustering 2.7.4

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1.46 slf4j 1.6.1

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1.47 pcre 7.8-6.el6

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Written by: Philip Hazel
Email local part: ph10
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1.48 gnupg 2.0.14

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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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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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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

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Version 3, 29 June 2007

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```
# COPYING.other          -*- org -*-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

```
* DNS resolver (dirmngr/dns.c)
```

dns.c - Recursive, Reentrant DNS Resolver.

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1.49 databinding 1.3.100.I20100601 0800

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1.50 cxf-rt-rs-extension-providers 2.7.4

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1.51 xstream 1.4.2

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1.52 tiles-template 3.0.8

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1.53 tar 1.2.11-17.el6_4.1

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1.55 jetty-security 8.1.7.v20120910

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Found in path(s):

```
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jar/org/eclipse/jetty/security/UserDataConstraint.java
```

```
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/security/HashLoginService.java
```

* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java

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jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java  
* /opt/ws_local/PERMITS_SQL/1068640202_1594426149.53/0/spring-context-support-3-1-4-release-sources-1-  
jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java  
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jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java  
* /opt/ws_local/PERMITS_SQL/1068640202_1594426149.53/0/spring-context-support-3-1-4-release-sources-1-
```

jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java

* /opt/ws_local/PERMITS_SQL/1068640202_1594426149.53/0/spring-context-support-3-1-4-release-sources-1-

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jar/org/springframework/mail/SimpleMailMessage.java

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jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java

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jar/org/springframework/mail/javamail/SmartMimeMessage.java

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 - * /opt/ws_local/PERMITS_SQL/1068640202_1594426149.53/0/spring-context-support-3-1-4-release-sources-1-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
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1.61 xml-beans 2.3.0

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1.62 commons-daemon 1.0.7

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1.63 apache-log4j 1.2.16

1.64 curl 7.61.1

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=====

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1.65 pciutils 3.1.10-4.el6

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1.66 msv-core 2011.1

1.67 open-ldap 2.4.40 6.el6_7

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* \$Header: /home/cvs/jakarta-commons/logging/LICENSE.txt,v 1.1 2002/07/25 02:36:45 jvanzyl Exp \$

* \$Revision: 1.1 \$

* \$Date: 2002/07/25 02:36:45 \$

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* \$Header: /home/cvs/jakarta-commons/httpclient/LICENSE.txt,v 1.4 2003/01/27 15:28:26 jsdever Exp \$

* \$Revision: 1.4 \$

* \$Date: 2003/01/27 15:28:26 \$

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* /
* /*
* \$Header: /home/cvs/jakarta-cactus/LICENSE.servletapi,v 1.1 2002/06/06 10:31:17 vmassol Exp \$
* \$Revision: 1.1 \$
* \$Date: 2002/06/06 10:31:17 \$
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* $Header: /home/cvs/jakarta-cactus/LICENSE.httpclient,v 1.1 2002/03/10 14:32:48 vmassol Exp $
* $Revision: 1.1 $
* $Date: 2002/03/10 14:32:48 $
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* \$Revision: 1.2 \$

* \$Date: 2003/04/06 20:37:31 \$

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1.80 taglibs-standard 1.2.5

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1.84 tomcat-dbcp 9.0.37

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*

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1.87 lvm2 2.02.111-2.el6_6.1

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1.90 axiom-common-impl 1.2.13

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1.93 squashfs-tools 4.0-5.el6

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1.94 oro 2.0.7

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Daniel Savarese <dfs at savarese.org> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

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Mark Murphy <markm at tyrell.com> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIE and escaping of \$.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

```
/* =====
```

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1.95 libdrm 2.4.52-4.el6

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.. _history-and-license:

History and License

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.

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0.9.0 thru 1.2	n/a	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	no	
+-----+					
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	2002-2003	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	2003	PSF	yes	
+-----+					
2.3.3	2.3.2	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	
+-----+-----+-----+-----+-----+					

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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.keio.ac.jp/matsumoto/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.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

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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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 Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

XML Remote Procedure Calls

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test_epoll

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Select kqueue

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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.

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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
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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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
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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1.101 axiom 1.2.7

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1.102 findutils 4.4.2-6.el6

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Version 3, 29 June 2007

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```
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```
# canonicalize-lgpl.m4 serial 4
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```

```
AC_DEFUN([gl_CANONICALIZE_LGPL],
[
dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ(canonicalize-lgpl)
  AC_DEFINE([realpath], [rpl_realpath],
    [Define to a replacement function name for realpath().])
  gl_PREREQ_CANONICALIZE_LGPL
fi
])
```

```
# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])
```

```
# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
  AC_CHECK_FUNCS_ONCE(getcwd readlink)
])
```

1.103 zlib 1.2.3-29.el6

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1.104 iproute 2.6.32-32.el6_5

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1.105 jettison 1.3.3

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* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/LocallyExposedJmsResourceHolder.java
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* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/core/BrowserCallback.java
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* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/support/JmsAccessor.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/connection/ChainedExceptionListener.java
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- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/adapter/MessageListenerAdapter.java
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- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/support/converter/MessageType.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/connection/TransactionAwareConnectionFactoryProxy.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/core/JmsTemplate.java
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- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/support/converter/SimpleMessageConverter102.java
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- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/connection/SingleConnectionFactory102.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/support/destination/JndiDestinationResolver.java
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jar/org/springframework/jms/MessageNotReadableException.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/connection/DelegatingConnectionFactory.java
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jar/org/springframework/jms/UncategorizedJmsException.java
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jar/org/springframework/jms/InvalidSelectorException.java
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jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
* /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-
jar/org/springframework/jms/IllegalStateException.java
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jar/org/springframework/jms/MessageEOFException.java
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jar/org/springframework/jms/MessageNotWriteableException.java
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- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/connection/JmsResourceHolder.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/AbstractPollingMessageListenerContainer.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/AbstractJmsListeningContainer.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/config/JcaListenerContainerParser.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/endpoint/JmsActivationSpecConfig.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/connection/UserCredentialsConnectionFactoryAdapter.java
- * /opt/cola/permits/1111238258_1606882754.76/0/spring-jms-3-0-7-release-sources-2-jar/org/springframework/jms/listener/SimpleMessageListenerContainer.java

1.107 axis2-transport-tcp 1.0.0

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1.108 libtasn 2.3-6.el6_5

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1.111 cxf-services-sts-core 2.7.4

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1.112 libcgroup 0.40.rc1-12.el6

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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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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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vim600: encoding=UTF-8

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1.115 tftp-hpa 0.49

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-
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* http://www.openbsd.org/.  
*  
* ----- */
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-
0.49/tftpd/remap.h
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-
0.49/tftpd/remap.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c
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/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.1.in
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/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/MCONFIG.in
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/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.c
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/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
No license file was found, but licenses were detected in source scan.

```
/* ----- *  
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* as the "OpenBSD" operating system, distributed at  
* http://www.openbsd.org/.  
*  
* ----- */
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

```
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
```

```
make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
```

install

```
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
```

```
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp
```

```
%post server
```

```
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
```

```
if [ $1 = 0 ]; then
```

```
  /sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
fi
```

```
%clean
```

```
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
```

```
%defattr(-,root,root)
```

```
%{_bindir}/tftp
```

```
%{_mandir}/man1/*
```

```
%files server
```

```
%defattr(-,root,root)
```

```
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
```

```
%dir /tftpboot
```

```
%{_sbindir}/in.tftpd
```

```
%{_mandir}/man8/*
```

```
%changelog
```

```
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
```

```
- removed completely broken "Malta" patch.
```

```
- integrated into build machinery so rpm -ta works.
```

```
* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

```
- 0.33
```

```
- Add /tftpboot directory (#88204)
```

```
* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
```

```
- add BuildPreReq on tcp_wrappers
```

```
* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
```

```
- rebuilt
```


- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
 - Update to 0.32
- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30
- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476
- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29
- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)
- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.
- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one
- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x
- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update to tftp-hpa-0.16
- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),
- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).
- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.
- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled
- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.
- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody
- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).
- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd
- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild
- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.
- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).
- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary
- * Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server
- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.
- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)
- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)
- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.
- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root
- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr
- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec
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.\ " *- nroff *- ----- *

```

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.\"----- */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-
0.49/tftpd/tftpd.8.in

```

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```

/*

```

```

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- * /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h
- * /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h

1.116 gnutls 2.8.5-14.el6_5

1.116.1 Available under license :

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Version 2.1, February 1999

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```
#####  
## Constant-time SSSE3 AES core implementation.  
## version 0.1  
##  
## By Mike Hamburg (Stanford University), 2009  
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1.121 mysql 5.1.73-8.el6_8

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1.122 jzlib 1.0.2

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1.123 httpcomponents-core 4.2.2

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1.125 tomcat-tribes 9.0.37

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1.126 pixman 0.32.4

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1.127 fuse 2.8.3

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1.133 axiom-impl 1.2.13

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1.135 ognl 3.1.26

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1.136 rng-tools 2-13.el6_2

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1.137 asm 3.1

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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
 jar/org/objectweb/asm/util/TraceSignatureVisitor.java
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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/util/CheckClassAdapter.java
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jar/org/objectweb/asm/tree/FieldNode.java
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jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
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jar/org/springframework/beans/factory/aspectj/AbstractBeanConfigurerAspect.aj
* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-
jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-
jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java
* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-
jar/org/springframework/beans/factory/aspectj/GenericInterfaceDrivenDependencyInjectionAspect.aj
* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-
jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-jar/org/springframework/cache/aspectj/AspectJCacheConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java

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* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-jar/org/springframework/scheduling/aspectj/AnnotationAsyncExecutionAspect.aj
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* /opt/ws_local/PERMITS_SQL/1068948629_1594435792.37/0/spring-aspects-3-1-4-release-sources-jar/org/springframework/scheduling/aspectj/AbstractAsyncExecutionAspect.aj

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jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
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1.140 jre 1.4.2u03

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Little Color Management System (LCMS) v2.9

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```
Benoit Sigoure <tsuna@google.com>
Bogdan Pilocla <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
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Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
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Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen Carlsen <ocarlsen@google.com>
```

Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotrk@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsda@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
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Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>

Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean McAfee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

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Mesa 3-D Graphics Library v19.2.1

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Device drivers	src/mesa/drivers/*	MIT, generally
Gallium code	src/gallium/	MIT
Ext headers	GL/gltext.h	Khronos
	GL/glxext.h	Khronos
	GL/wgltext.h	Khronos
	KHR/khrplatform.h	Khronos

include/GL/gl.h :

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include/GL/wglxext.h :

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include/KHR/khrplatform.h :

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```

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```
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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

*/

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1.142 grep 2.6.3-6.el6

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1.143 libpng 1.2.49-1.el6_2

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1.146 stax 3.1.1

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1.147 python 2.7.11

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.. _history-and-license:

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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 <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 | 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 |
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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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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 Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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 Porschke <porschke@bnl.gov>.
1999-05-03 lpd Original version.

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

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Select kqueue

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strtod and dtoa

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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.

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1.149 selinux 2.0.94-5.8.el6

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1.150 Izo 2.03-3.1.el6_5.1

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1.151 jetty 8.1.7.v20120910

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jar/org/eclipse/jetty/http/HttpContent.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpBuffers.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HTTPHeaderValues.java
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jar/org/eclipse/jetty/http/gzip/AbstractCompressedStream.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
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* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpTokens.java
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jar/org/eclipse/jetty/http/EncodedHttpURI.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpSchemes.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/AbstractGenerator.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpGenerator.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpStatus.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/Generator.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
```

jar/org/eclipse/jetty/http/Parser.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-jar/org/eclipse/jetty/http/HttpMethods.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-jar/org/eclipse/jetty/http/HttpBuffersImpl.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-jar/org/eclipse/jetty/http/MimeTypes.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-jar/org/eclipse/jetty/http/gzip/CompressedResponseWrapper.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-jar/org/eclipse/jetty/http/HttpException.java
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1.152 cxf-rt-databinding-sdo 2.7.4

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1.153 jackson 1.9.0

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*/
```

Found in path(s):

```
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/JsonParser.java  
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/Base64Variant.java  
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/JsonFactory.java  
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/JsonStreamContext.java  
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/Base64Variants.java  
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/JsonGenerator.java  
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-  
jar/org/codehaus/jackson/util/ByteArrayBuilder.java
```

1.154 struts2-embeddedjsp-plugin 2.5.22

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd

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- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- javaee_web_services_client_1_2.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- web-common_3_1.xsd
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
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1.161 istack-commons-tools 2.13

1.162 cxf-rt-rs-security-oauth2 2.7.4

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```

```
*/
```

```
package org.apache.cxf.rs.security.oauth2.common;
```

```
/**
```

```
 * Base permission description
```

```
 * @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
```

```
    private String permission;
```

```
    private String description;
```

```
    private boolean isDefault;
```

```
    public Permission() {
```

```
    }
```

```
    public Permission(String permission, String description) {
```

```
        this.description = description;
```

```
        this.permission = permission;
```

```
    }
```

```
/**
```

```
 * Gets the permission description
```

```
 * @return the description
```

```
*/
```

```
public String getDescription() {
```

```
    return description;
```

```
}
```

```
/**
```

```
 * Sets the permission description
```

```
 * @param description
```

```
*/
```

```
public void setDescription(String description) {
```

```
    this.description = description;
```

```
}
```

```
/**
```

```

* Get the permission value such as "read_calendar"
* @return the value
*/
public String getPermission() {
    return permission;
}

/**
* Sets the permission value such as "read_calendar"
* @param permission the permission value
*/
public void setPermission(String permission) {
    this.permission = permission;
}

/**
* Indicates if this permission has been allocated by default or not.
* Authorization View handlers may use this property in order to restrict
* the list of scopes which may be refused to non-default scopes only.
* For example, the read-only check-box controls can be used to represent
* the default scopes
* @param isDefault true if the permission has been allocated by default
*/
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

Apache CXF

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jar/org/springframework/beans/factory/BeanInitializationException.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/BeanInstantiationException.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/NotReadablePropertyException.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
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jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
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jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanReference.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/CommonsLogFactoryBean.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/DisposableBean.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/access/BootstrapException.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/support/SortDefinition.java

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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/TypeMismatchException.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/PropertyAccessor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/xml/DocumentLoader.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/PropertyValue.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/PropertyBatchUpdateException.java
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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/Qualifier.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/BeanWrapper.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/TypeConverterDelegate.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/Autowired.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/BeanWrapperImpl.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/Configurable.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/Value.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java

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- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/NotWritablePropertyException.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/BeanCreationException.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/SetFactoryBean.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/PropertyAccessorFactory.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/ObjectFactory.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/SmartFactoryBean.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/MapFactoryBean.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/access/el/SpringBeanELResolver.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/PropertyMatches.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
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- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
- * /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-

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* /opt/cola/permits/1111237912_1606882939.34/0/spring-beans-3-0-7-release-sources-1-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
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1.165 mdadm 3.3-6.el6

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1.168 xerces-j 2.7.1

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jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/identity/ValueStore.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/NodeListCache.java

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jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLDivElementImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/XMLSchema.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/SAXInputSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDDecimal.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xpointer/XPointerHandler.java
```

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/StreamValidatorHelper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ShortHandPointer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMInputSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
```

jar/org/apache/xerces/dom/DOMConfigurationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/ObjectFactory.java

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*/  
/**  
 * used to check the 3 constraints against each complex type  
 * (should be each model group):  
 * Unique Particle Attribution, Particle Derivation (Restriction),  
 * Element Declarations Consistent.  
 */
```

Found in path(s):

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java

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jar/org/apache/xerces/xni/XMLResourceIdentifier.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLNamespaceBinder.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMMessageFormatter.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
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jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/SAXParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/dom/AttributeMap.java
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jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
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jar/org/apache/xerces/dom/ChildNode.java
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jar/org/apache/xerces/util/NamespaceSupport.java
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jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/XPath.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMAny.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/SymbolTable.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/EncodingInfo.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
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- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/Augmentations.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
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- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPCConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/IntStack.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/Grammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DefaultErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDCContentModelHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDCContentModelFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/XPathException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XInt.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASModelImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMOutputImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XNIException.java
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jar/org/apache/xerces/dom/DocumentFragmentImpl.java

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jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMUtil.java
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jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
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jar/org/apache/xerces/impl/validation/ConfigurableValidationState.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLIFrameElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFontElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLinkElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLAppletElementImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHRElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLAElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFormElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLEmElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBaseElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMapElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLUListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLAreaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTableElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLBElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableRowElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMetaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSmallElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLAnchorElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLButtonElementImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSParticleDecl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/ExternalSubsetResolver.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/ByteListImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
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jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/w3c/dom/html/HTMLDOMImplementation.java

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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 * then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous
 * mode, if it's MODE_ASYNCHRONOUS then the
 * LSParser that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
 * language used during the load of a Document using the
 * newly created LSParser. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * LSParser for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * null.
 * <p><b>Note:</b> For W3C XML Schema [XML Schema Part 1]
 * , applications must use the value
 * "http://www.w3.org/2001/XMLSchema". For XML DTD [XML 1.0],
 * applications must use the value
 * "http://www.w3.org/TR/REC-xml". Other Schema languages
 * are outside the scope of the W3C and therefore should recommend an
 * absolute URI in order to use this method.
 * @return The newly created LSParser object. This
 * LSParser is either synchronous or asynchronous
```


- * depending on the value of the `mode` argument.
- * **Note:** By default, the newly created `LSParser`
- * does not contain a `DOMErrorHandler`, i.e. the value of
- * the "[" configuration parameter is `null`. However, implementations](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)
- * may provide a default error handler at creation time. In that case,
- * the initial value of the `"error-handler"` configuration
- * parameter on the new created `LSParser` contains a
- * reference to the default error handler.
- * @exception DOMException
- * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
- * not supported.

Found in path(s):

- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java

- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java

- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java

- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java

- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/models/CMBuilder.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/PSVIElementNSImpl.java
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jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
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jar/org/apache/xerces/util/XMLErrorCode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XML11DTDCConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDatetime.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/HTTPInputSource.java

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jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java

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jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSLoader.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SecurityManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ElementPSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/LSInputList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItemList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/PSVIProvider.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModel.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DTDSscannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLEmElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLCardElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLInputElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLImgElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDocument.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPrevElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAnchorElement.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLHeadElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTimerElement.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSmallElement.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLNoopElement.java

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jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java

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jar/org/apache/xerces/impl/xs/identity/FieldActivator.java

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jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMLLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XML11DTDDProcessor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
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jar/org/apache/xerces/impl/Constants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/DOMParserImpl.java

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jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/dv/xs/FloatDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSModelGroupDefinition.java
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jar/org/apache/xerces/xs/XSAttributeUse.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSIDCDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/XSModelGroup.java

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jar/org/apache/xerces/dom/NodeImpl.java

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jar/org/apache/xerces/dom/TreeWalkerImpl.java

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jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java

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- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/OutputFormat.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDParse.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
- * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
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jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/MessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/LineSeparator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xml/serialize/ElementState.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/SerializerFactory.java

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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.

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Ty Coon, President of Vice

That's all there is to it!

1.172 antlr 3.2

1.172.1 Available under license :

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

```
/*  
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```
*/
```

group Java implements ANTLRCore;

```
javaTypeInitMap ::= [
    "int": "0",
    "long": "0",
    "float": "0.0f",
    "double": "0.0",
    "boolean": "false",
    "byte": "0",
    "short": "0",
    "char": "0",
    default: "null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::=

<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
import org.antlr.runtime.*;
<if(TREE_PARSER)>
import org.antlr.runtime.tree.*;
<endif>
import java.util.Stack;
import java.util.List;
import java.util.ArrayList;
<if(backtracking)>
import java.util.Map;
import java.util.HashMap;
<endif>
<@end>

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
    filterMode, superClass="Lexer") ::= <<
```

```

public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
    <tokens: {public static final int <it.name>=<it.type>;}; separator="\n">
    <scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators): {g|public <g.recognizerName> gParent;}>

    public <grammar.recognizerName>() {} <! needed by subclasses !>
    public <grammar.recognizerName>(CharStream input<grammar.delegators: {g|, <g.recognizerName>
    <g.delegateName()>}>>) {
        this(input, new RecognizerSharedState()<grammar.delegators: {g|, <g.delegateName()>}>);
    }
    public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators: {g|,
    <g.recognizerName> <g.delegateName()>}>) {
        super(input, state);
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new HashMap[<numRules>+1];<\n> <! index from 1..n !>
    <endif>
    <endif>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators): {p|,
    <p.delegateName()>}>, this);}; separator="\n">
        <grammar.delegators:
            {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
            <last(grammar.delegators): {g|gParent = <g.delegateName()>;}>
        }
    public String getGrammarFileName() { return "<fileName>"; }

    <if(filterMode)>
        <filteringNextToken()>
    <endif>
    <rules; separator="\n\n">

    <synpreds: {p | <lexerSynpred(p)>}>

    <cyclicDFAs: {dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
    DFA<dfa.decisionNumber>(this);}; separator="\n">
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

```

```

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
        state.tokenStartCharIndex = input.index();
        state.tokenStartCharPositionInLine = input.getCharPositionInLine();
        state.tokenStartLine = input.getLine();
state.text = null;
        try {
            int m = input.mark();
            state.backtracking=1; <! means we won't throw slow exception !>
            state.failed=false;
            mTokens();
            state.backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( state.failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            }
            else {
                emit();
                return state.token;
            }
        }
        catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}

public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{

```

```

if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}
>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="Object", labelType, members, rewriteElementType,
    filterMode) ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<if(grammar.grammarIsRoot)>
    public static final String[] tokenNames = new String[] {
        "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator=", ">
    };<\n>
<endif>
    <tokens:{public static final int <it.name>=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
    <g.delegateName()>}> ) {
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>);
    }
    public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}> ) {
        super(input, state);
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
    <p.delegateName()>}>, this);}; separator="\n">

```

```

    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}
separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>
}
<@end>

public String[] getTokenNames() { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public String getGrammarFileName() { return "<fileName>"; }

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
    public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throws RecognitionException \{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>; separator=", ">; \}); separator="\n">

    <synpreds:{p | <synpred(p)>}>

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
        words64=it.bits)>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new HashMap[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

```

```

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
            numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
members={<actions.treeparser.members>},
filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
    <ruleLabelDefs()>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {
    state.backtracking++;
    <@start()>
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {

```



```

        System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
    <@stop()>
    state.backtracking--;
    state.failed=false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public final <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>

```

```

try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
<else>
    catch (RecognitionException re) {
        reportError(re);
        recover(input,re);
    <@setErrorReturnValue()>
    }<\n>
<endif>
<endif>
<endif>
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>

```

```

<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels: {int <it.label.text>}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval

```

```

<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>) throws
RecognitionException {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
<if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block><\n>
<else>
        int _type = <ruleName>;
        int _channel = DEFAULT_TOKEN_CHANNEL;
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanup()>
        state.type = _type;
        state.channel = _channel;
        <(ruleDescriptor.actions.after):execAction()>

```

```

<endif>
}
finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public void mTokens() throws RecognitionException {
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
}

```

>>

```
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>
```

*/** A special case of a (...) subrule with a single alternative */*

```
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>
```

*/** A (..)+ block with 1 or more alternatives */*

```
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
    if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
    <ruleBacktrackFailure()>
    EarlyExitException eee =
        new EarlyExitException(<decisionNumber>, input);
    <@earlyExitException()>
    throw eee;
    }
    cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>
```

```
positiveClosureBlockSingleAlt ::= positiveClosureBlock
```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
  default :
    break loop<decisionNumber>;
  }
} while (true);
<@postloop()>
>>

```

```
closureBlockSingleAlt ::= closureBlock
```

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */

```

```
optionalBlock ::= block
```

```
optionalBlockSingleAlt ::= block
```

```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */

```

```

altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>

```

```

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations()>
<elements:element()>

```

```

<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=(<labelType>)<endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex
>); <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>

```



```

matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> ) {
    input.consume();
    <postmatchCode>
<if(!LEXER)>
    state.errorRecovery=false;
<endif>
    <if(backtracking)>state.failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
<if(LEXER)>
    recover(mse);
    throw mse;
<else>
    throw mse;
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = getCharIndex();
match(<string>); <checkRuleBacktrackFailure()>

```

```

<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
getCharIndex()-1);
<else>
match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp--;
<checkRuleBacktrackFailure()>
>>

```

```

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>

```

```

<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=" , ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=" , ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>

```

```

    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
  }
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) ) {
  <ruleBacktrackFailure()>
  throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  NoViableAltException nvae =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
  <@noViableAltException()>
  throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
  alt<decisionNumber>=<eotPredictsAlt>;
}
<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif> ) {
  <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  NoViableAltException nvae =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>

```

```

    <@noViableAltException()>
    throw nvae;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>)) {
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>)) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
    <targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.

```

```

*/
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap=\""+\n    \">";
static final String DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap=\""+\n    \">";
static final String DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap=\""+\n    \">";
static final String DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap=\""+\n    \">";
static final String DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap=\""+\n    \">";
static final String DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap=\""+\n    \">}>";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|<s; wrap=\""+\n\">"}; separator=",\n"
};

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;

static {
    int numStates = DFA<dfa.decisionNumber>_transitionS.length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i<numStates; i++) {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

class DFA<dfa.decisionNumber> extends DFA {

    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
    }
}

```

```

    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}
public String getDescription() {
    return "<dfa.description>";
}
<@errorMethod()>
<if(dfa.specialStateSTs)>
    public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
        <if(LEXER)>
            IntStream input = _input;
        <endif>
        <if(PARSER)>
            TokenStream input = (TokenStream)_input;
        <endif>
        <if(TREE_PARSER)>
            TreeNodeStream input = (TreeNodeStream)_input;
        <endif>
        int _s = s;
        switch ( s ) {
            <dfa.specialStateSTs:{state |
                case <i0> : <! compressed special state numbers 0..n-1 !>
                    <state>}; separator="\n">
                }
        <if(backtracking)>
            if (state.backtracking>0) {state.failed=true; return -1;}<\n>
        <endif>
        NoViableAltException nvae =
            new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
        error(nvae);
        throw nvae;
    }<\n>
<endif>
}<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();<\n>
<endif>

```



```

s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewind !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{ o | ||<o> }>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)>=<lower> && LA<decisionNumber>_<stateNumber>|<=<upper>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>))>=<lower>

```

```
&& input.LA(<k>)\<=<upper>)"
```

```
setTest(ranges) ::= "<ranges; separator=\\|\\>"
```

```
// A T T R I B U T E S
```

```
globalAttributeScope(scope) ::= <<  
<if(scope.attributes)>  
protected static class <scope.name>_scope {  
    <scope.attributes:{<it.decl>;}; separator="\n">  
}  
protected Stack <scope.name>_stack = new Stack();<\n>  
<endif>  
>>
```

```
ruleAttributeScope(scope) ::= <<  
<if(scope.attributes)>  
protected static class <scope.name>_scope {  
    <scope.attributes:{<it.decl>;}; separator="\n">  
}  
protected Stack <scope.name>_stack = new Stack();<\n>  
<endif>  
>>
```

```
returnStructName() ::= "<it.name>_return"
```

```
returnType() ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>  
<else>  
<if(ruleDescriptor.hasSingleReturnValue)>  
<ruleDescriptor.singleValueReturnType>  
<else>  
void  
<endif>  
<endif>  
>>
```

```
/** Generate the Java type associated with a single or multiple return  
 * values.  
 */
```

```
ruleLabelType(referencedRule) ::= <<  
<if(referencedRule.hasMultipleReturnValues)>  
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return  
<else>  
<if(referencedRule.hasSingleReturnValue)>  
<referencedRule.singleValueReturnType>  
<else>
```

```

void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>

```

```

((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like { $function.size()>0 && $function::name.equals("foo") }?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>

```

```

>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>!=null?<scope>.getType():0)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=null?<scope>.getLine():0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=null?<scope>.getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=null?<scope>.getChannel():0)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=null?<scope>.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?Integer.valueOf(<scope>.getText():0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?((<labelType><scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?((<labelType><scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?((<ASTLabelType><scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.toString(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"<scope>!=null?<scope>.getTokenIndex():0)"

```

```

lexerRuleLabelPropertyRef_text(scope,attr) ::=
    "<scope>!=null?<scope>.getText():null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
    "<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "(<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "(<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate > ) {
    <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

```

```
// M I S C (properties, etc...)
```

```
bitset(name, words64) ::= <<
```

```
public static final BitSet <name> = new BitSet(new long[] { <it>L }; separator=", ">); <\n>  
>>
```

```
codeFileExtension() ::= ".java"
```

```
true() ::= "true"
```

```
false() ::= "false"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Java/Java.stg
```

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```

```
/*
```

```
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```

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```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```

* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
<block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_first_0 = None
_last = None<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
<if(rewriteMode)>
retval.tree = _first_0
if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
  retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
_last = self.input.LT(1)
_save_last_<treeLevel> = _last
_first_<treeLevel> = None
<if(!rewriteMode)>
root_<treeLevel> = self._adaptor.nil()<\n>

```



```

<endif>
<root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if _first_<enclosingTreeLevel> is None:
    _first_<enclosingTreeLevel> = <root.el.label>.tree<\n>
<else>
if _first_<enclosingTreeLevel> is None:
    _first_<enclosingTreeLevel> = <root.el.label><\n>
<endif>
})>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)<\n>
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<\n>
<endif>
_last = _save_last_<treeLevel>

>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({

```

```

<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label><\n>
})>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
    _last = self.input.LT(1)
    <super.tokenRef(...)>
    <if(!rewriteMode)>
    <finishedBacktracking({
    <if(hetero)>
    <label>_tree = <hetero>(<label>)
    <else>
    <label>_tree = self._adaptor.dupNode(<label>)
    <endif><\n>
    root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
    })>
    <endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
    _last = self.input.LT(1)
    <super.wildcard(...)>
    <if(!rewriteMode)>

```

```

<finishedBacktracking({
<label>_tree = self._adaptor.dupTree(<label>)
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>
})>
<endif>
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
    <finishedBacktracking({
    <if(hetero)>
    <label>_tree = <hetero>(<label>)
    <else>
    <label>_tree = self._adaptor.dupNode(<label>)
    <endif><\n>
    self._adaptor.addChild(root_<treeLevel>, <label>_tree)
    })>
    <endif>
    })>
    >>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(...)>
    >>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
    <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
    <finishedBacktracking({
    <if(hetero)>
    <label>_tree = <hetero>(<label>)
    <else>
    <label>_tree = self._adaptor.dupNode(<label>)
    <endif><\n>

```

```

root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
})>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRef(...)>
  <finishedBacktracking({
  <if(!rewriteMode)>
  self._adaptor.addChild(root_<treeLevel>, <label>.tree)
  <else> <! rewrite mode !>
  if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>.tree<\n>
  <endif>
  })>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRef(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
  })>
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)

```

```

<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
<super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
<hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
})>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
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```

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*/

/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

group antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/templates/messages/formats/vs2005.stg

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/*

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```

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*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg;

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[]
{
"invalidRule", <grammar.allImportedRules: {rST | "<rST.name>"}; wrap="\n ", separator=", ">
};<\n>
<endif>

```

```

<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
  <ctorForProfilingRootGrammar()>
<else>
  <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>>>.RuleLevel; } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>>.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>>.DecRuleLevel(); }
  <ctorForDelegateGrammar()>
<endif>
<if(profile)>
public virtual bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
  ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
  return super.AlreadyParsedRule(input, ruleIndex);
}<\n>
public virtual void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
  ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
  super.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected virtual bool EvalPredicate( bool result, string predicate )
{
  dbg.SemanticPredicate( result, predicate );
  return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, int port, RecognizerSharedState state )
: base( input, state )
{

```



```

<parserCtorBody()>
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>> );}; separator="\n">
<@finally()>
}<\n>
>>

```

```

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
<g:delegateName()>> );}; separator="\n">
<@finally()>
}
<\n>
>>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>> )
: base( input, dbg, state )
{
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|,
<g:delegateName()>> );}; separator="\n">
}<\n>
>>

```

```

ctorForPredefinedListener() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg )
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
<if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);

```

```

<endif>
<parserCtorBody>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<@finally()>
}<\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

```

```

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

```

```

@rule.preamble() ::= <<
try
{
dbg.EnterRule( GrammarFileName, "<ruleName>" );
if ( RuleLevel == 0 )
{
dbg.Commence();
}
IncRuleLevel();
dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );<\n>
>>

```

```

@rule.postamble() ::= <<
dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
}
finally
{
dbg.ExitRule( GrammarFileName, "<ruleName>" );
DecRuleLevel();
if ( RuleLevel == 0 )
{

```

```

    dbg.Terminate();
  }
}<\n>
>>

@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"

@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

enterSubRule() ::= <<
try
{
  dbg.EnterSubRule( <decisionNumber> );<\n>
}>>

exitSubRule() ::= <<
}
finally
{
  dbg.ExitSubRule( <decisionNumber> );
}<\n>
>>

enterDecision() ::= <<
try
{
  dbg.EnterDecision( <decisionNumber> );<\n>
}>>

exitDecision() ::= <<
}
finally
{
  dbg.ExitDecision( <decisionNumber> );
}<\n>
>>

enterAlt(n) ::= "dbg.EnterAlt( <n> );<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

```

```

@ruleBlock.predecision() ::= "<enterDecision(>"

@ruleBlock.postdecision() ::= "<exitDecision(>"

@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule(>"

@positiveClosureBlock.postloop() ::= "<exitSubRule(>"

@positiveClosureBlock.predecision() ::= "<enterDecision(>"

@positiveClosureBlock.postdecision() ::= "<exitDecision(>"

@positiveClosureBlock.earlyExitException() ::=
"dbg.RecognitionException( eee<decisionNumber> );<\n>"

@closureBlock.preloop() ::= "<enterSubRule(>"

@closureBlock.postloop() ::= "<exitSubRule(>"

@closureBlock.predecision() ::= "<enterDecision(>"

@closureBlock.postdecision() ::= "<exitDecision(>"

@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
"dbg.Location( <it.line>, <it.pos> );"

@matchSet.mismatchedSetException() ::=
"dbg.RecognitionException( mse );"

@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"

@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

dfaDecision(decisionNumber,description) ::= <<
try
{
isCyclicDecision = true;
<super.dfaDecision(...)>
}
catch ( NoViableAltException nvae )
{

```

```
dbg.RecognitionException( nvae );
throw nvae;
}
>>
```

```
@cyclicDFA.errorMethod() ::= <<
public override void Error( NoViableAltException nvae )
{
((DebugParser)recognizer).dbg.RecognitionException( nvae );
}
>>
```

```
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate( <pred>, "<description>" )
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp3/Dbg.stg
```

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*/

/** Templates for building ASTs during normal parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* The situation is not too bad as rewrite (->) usage makes ^ and !

* invalid. There is no huge explosion of combinations.

*/

group ASTParser;

```

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( backtracking == 0 ) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( backtracking == 0 ) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass

```

```

// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

// TODO: add support for heterogeneous trees

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
})>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (backtracking == 0) <endif>[treeAdaptor addChild:[_<label> tree] toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<

```



```

<super.ruleRef(...)>
<if(backtracking)>if (backtracking == 0) <endif>root_0 = (<ASTLabelType>)[treeAdaptor makeNode:[_<label>
tree] parentOf:root_0];
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem="["+label+" tree]",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem="["+label+" tree]",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem="["+label+" tree]",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>

```

```
new <hetero><label> <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.create(<label>)
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/ObjC/ASTParser.stg
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```
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```

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```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports()><if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
Antlr.Runtime.Tree,<n><endif>
```

```
>>
```

```

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

@genericParser.membersConstructor() ::= <<
<@super.membersConstructor()>
<parserMembersConstructor()>
>>

@genericParser.membersImplementation() ::= <<
<@super.membersImplementation()>
<parserMembersImplementation()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
strict protected
  FAdaptor: ITreeAdaptor;
  procedure SetAdaptor(const Value: ITreeAdaptor);
  property Adaptor: ITreeAdaptor read FAdaptor;
public
  property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;

>>

parserMembersConstructor() ::= <<
FAdaptor := TCommonTreeAdaptor.Create;
>>

parserMembersImplementation() ::= <<
procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
begin
  FAdaptor := Value;
  <grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>
end;
>>

@returnScope.ruleReturnMembers() ::= <<
function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
begin
  Result := FTree;
end;

procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value:
IANTLRInterface);
begin
  FTree := Value as I<ASTLabelType>;

```

```

end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
strict private
FTree: I<ASTLabelType>;
protected
{ IRuleReturnScope }
function GetTree: IANTLRInterface; override;
procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
Root[0] := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels: { <it.label.text>_tree := nil; }; separator="\n">
<ruleDescriptor.tokenListLabels: { <it.label.text>_tree := nil; }; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites: {Locals['Stream_<it>'] :=
TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>'); }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites: {Locals['Stream_<it>'] :=
TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>'); }; separator="\n">
>>

ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels: { <it.label.text>_tree: I<ASTLabelType>; }; separator="\n">
<ruleDescriptor.tokenListLabels: { <it.label.text>_tree: I<ASTLabelType>; }; separator="\n">
>>
/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;

```

```

<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as
IRewriteRuleElementStream).Add(<label>.Tree);<\n>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as
IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<prevRuleRootRef(>).Tree := Root[0];
<rewriteCodeLabels(>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(> separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>

```

```

<prevRuleRootRef(>).Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
    adaptor.GetChildIndex(retval.Start),
    adaptor.GetChildIndex(_last),
    retval.Tree);

<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>).Tree := Root[0];<\n>
<endif>
<if(!rewriteMode)>
<prevRuleRootRef(>).Tree := Root[0];<\n>
<endif>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
separator="\n"
>
<referencedTokenListLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', list_<it>);};
separator="\n"
>
<referencedRuleLabels: {
if Assigned(<it>) then
Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)
else
Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil);}; separator="\n">
<referencedRuleListLabels
: {Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<

```

```

(* <fileName>:<description> *)
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator="
or ">) then
begin
  <alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset;<\n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements,    // elements in immediately block; no nested blocks
  description) ::=
<<
(* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
  <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<\n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements,    // elements in immediately block; no nested blocks
  description) ::=
<<
if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">)) then
  raise ERewriteEarlyExitException.Create("");

while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
  <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
(* <a.description> *)
<if(a.pred)>
if (<a.pred>) then
begin
  <a.alt>

```



```

end<\n>
<else>
begin
  <a.alt>
end;<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
  Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
  <root:rewriteElement()>
  <children:rewriteElement()>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode(), Root[<treeLevel>]) as I<ASTLabelType>;<\n>

```

```

>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of Root[0] right
 * before I set it during rewrites. The assign will be to retval.Tree.
 */
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

```

```

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

```

```

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

```

```

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

```

```

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

```

```

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
T<hetero>.Create(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
Adaptor.CreateNode(<tokenType>, <args; separator=", "><if(!args)>'<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>

```

```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>, <args;
separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
Adaptor.Create(<token>, <args; separator=", ">)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Delphi/AST.stg

```

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

```
/*
```

```
[The "BSD licence"]
```

```
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```

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```

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```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
<if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
import org.antlr.runtime.tree.*;<\n>
```

```
<endif>
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```

```
<parserMembers(>
```

```
>>
```

```
/** Add an adaptor property that knows how to build trees */
```

```
parserMembers() ::= <<
```

```
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();<\n>
```

```
override public function set treeAdaptor(adaptor:TreeAdaptor):void {
```

```
    this.adaptor = adaptor;
```

```

    <grammar.directDelegates:{g|<g.delegateName()>.treeAdaptor = this.adaptor;}>
  }
  override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
  }
  >>

  @returnScope.ruleReturnMembers() ::= <<
  <ASTLabelType> tree;
  public function get tree():Object { return tree; }
  >>

  /** Add a variable to track rule's return AST */
  ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  var root_0:<ASTLabelType> = null;<\n>
  >>

  ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
  ruleDescriptor.wildcardTreeListLabels]:{ var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{ var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{ var stream_<it>:RewriteRule<rewriteElementType>Stream=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{ var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
  separator="\n">
  >>

  /** When doing auto AST construction, we must define some variables;
  * These should be turned off if doing rewrites. This must be a "mode"
  * as a rule could have both rewrite and AST within the same alternative
  * block.
  */
  @alt.declarations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  <if(!rewriteMode)>
  root_0 = <ASTLabelType>(adaptor.nil());<\n>
  <endif>
  <endif>
  <endif>
  >>

  // Tracking Rule Elements

```

```

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".tree",...)>

```

>>

// R e w r i t e

```
rewriteCode(  
  alts, description,  
  referencedElementsDeep, // ALL referenced elements to right of ->  
  referencedTokenLabels,  
  referencedTokenListLabels,  
  referencedRuleLabels,  
  referencedRuleListLabels,  
  referencedWildcardLabels,  
  referencedWildcardListLabels,  
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
```

<<

// AST REWRITE

```
// elements: <referencedElementsDeep; separator=", ">  
// token labels: <referencedTokenLabels; separator=", ">  
// rule labels: <referencedRuleLabels; separator=", ">  
// token list labels: <referencedTokenListLabels; separator=", ">  
// rule list labels: <referencedRuleListLabels; separator=", ">  
<if(backtracking)>  
if ( <actions.(actionScope).synpredgate> ) {<\n>  
<endif>  
<prevRuleRootRef(>.tree = root_0;  
<rewriteCodeLabels(>  
root_0 = <ASTLabelType>(adaptor.nil());  
<alts:rewriteAlt(); separator="else ">  
<! if tree parser and rewrite=true !>  
<if(TREE_PARSER)>  
<if(rewriteMode)>  
<prevRuleRootRef(>.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));  
input.replaceChildren(adaptor.getParent(retval.start),  
  adaptor.getChildIndex(retval.start),  
  adaptor.getChildIndex(_last),  
  retval.tree);  
<endif>  
<endif>  
<! if parser or tree-parser && rewrite!=true, we need to set result !>  
<if(!TREE_PARSER)>  
<prevRuleRootRef(>.tree = root_0;  
<else>  
<if(!rewriteMode)>  
<prevRuleRootRef(>.tree = root_0;  
<endif>  
<endif>  
<if(backtracking)>
```

```

}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
  separator="\n"
>
<referencedTokenListLabels
  :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
  separator="\n"
>
<referencedWildcardLabels
  :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
  separator="\n"
>
<referencedWildcardListLabels
  :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard
<it> ",list_<it>)};
  separator="\n"
>
<referencedRuleLabels
  :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
  separator="\n"
>
<referencedRuleListLabels
  :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it> ",list_<it>)};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}

```



```

<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext}; separator="||">) ) {
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<

```

```

// <fileName>:<description>
{
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

```

```

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

```

```
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>
```

```
rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>
```

```
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(tokenType<if(args)>, <args; separator=", "><endif>)
<else>
<ASTLabelType>(adaptor.create(tokenType, <args; separator=", "><if(!args)>"<tokenType>"<endif>))
<endif>
>>
```

```
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/ActionScript/AST.stg
```

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```

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- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/CodeGenTreeWalkerTokenTypes.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/DefineGrammarItemsWalkerTokenTypes.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/Rule.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarNonDeterminismMessage.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/Message.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/RecursionOverflowMessage.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarInsufficientPredicatesMessage.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/FASerializer.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/MutableInteger.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/ANTLRErrorListener.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/DefineGrammarItemsWalker.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/ANTLRTreePrinterTokenTypes.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/ANTLRTokenTypes.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/PredicateLabel.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/CodeGenTreeWalker.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/NameSpaceChecker.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarUnreachableAltsMessage.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/NonRegularDecisionMessage.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarAnalysisAbortedMessage.java

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarSanity.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NFAConversionThread.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarSemanticsMessage.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/RandomPhrase.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/AssignTokenTypesWalkerTokenTypes.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/ToolMessage.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/Attribute.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarSyntaxMessage.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/Interp.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/ANTLRParser.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/ANTLRTreePrinter.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/RuleLabelScope.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/ANTLRLexer.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/AssignTokenTypesWalker.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/Barrier.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/AttributeScope.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/Grammar.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/ActionLabel.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/TreeToNFAConverterTokenTypes.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/Interpreter.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/AssignTokenTypesBehavior.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NonLLStarDecisionException.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/LeftRecursionCyclesMessage.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/MultiMap.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/ErrorMessageManager.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/AnalysisTimeoutException.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/grammar/v2/TreeToNFAConverter.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarAST.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/LL1Analyzer.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/LL1DFA.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarDanglingStateMessage.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/AnalysisRecursionOverflowException.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarReport.java
 * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/DOTGenerator.java

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*/

/** Templates for building ASTs during normal parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* The situation is not too bad as rewrite (->) usage makes ^ and !

* invalid. There is no huge explosion of combinations.

*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

// Conversion of the second argument necessary, but harmless

retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, (IToken) retval.Start, input.LT(-1), re);

```

<! System.Console.WriteLine("<ruleName> returns " + ((CommonTree)retval.Tree).ToStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = <createNodeFromToken(...)>;
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>
}
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```



```

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={ <if(backtracking)>if ( state.backtracking == 0 )
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={ <if(backtracking)>if ( state.backtracking == 0 ) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking == 0 ) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

```

```

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking == 0 ) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>
}
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>

```

```

<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}
<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.Create(<label>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(!TREE_PARSER)>
adaptor.SetTokenBoundaries(retval.Tree, (IToken) retval.Start, (IToken) retval.Stop);
<endif>
<if(backtracking)>
}
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/CSharp/ASTParser.stg

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* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/Ctarget.java

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*/

group ActionScript implements ANTLRCore;

```
asTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "Number": "0.0",
  "Boolean": "false",
  default: "null" // anything other than an atomic type
]
```

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.

*/

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
  docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,
  scopes, superClass, literals) ::=
```

<<

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> {
  <actions.(actionScope).header>
  <@imports>
  import org.antlr.runtime.*;
  <if(TREE_PARSER)>
    import org.antlr.runtime.tree.*;
  <endif>
  <@end>

  <docComment>
  <recognizer>
}
>>
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
  filterMode, superClass="Lexer") ::= <<
```

```
public class <grammar.recognizerName> extends
```

```
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass>
><@end><endif> {
```

```
  <tokens: {public static const <it.name>:int=<it.type>;}; separator="\n">
```

```
  <scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
```

```
  <actions.lexer.members>
```

```

// delegates
<grammar.delegates:
    {g|public var <g.delegateName():<g.recognizerName>;}; separator="\n">
// delegators
<grammar.delegators:
    {g|public var <g.delegateName():<g.recognizerName>;}; separator="\n">
<last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName():<g.recognizerName>,
}>input:CharStream = null, state:RecognizerSharedState = null) {
    super(input, state);
    <cyclicDFAs:cyclicDFACTOR(>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    this.state.ruleMemo = new Array(<numRules>+1);<\n><! index from 1..n !>
<endif>
<endif>
    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>this,
input, this.state);}; separator="\n">
    <grammar.delegators:
        {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
        <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
    }
    public override function get grammarFileName():String { return "<fileName>"; }

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override function nextToken():Token {
    while (true) {

```

```

if ( input.LA(1)==CharStreamConstants.EOF ) {
    return TokenConstants.EOF_TOKEN;
}
this.state.token = null;
this.state.channel = TokenConstants.DEFAULT_CHANNEL;
this.state.tokenStartCharIndex = input.index;
this.state.tokenStartCharPositionInLine = input.charPositionInLine;
this.state.tokenStartLine = input.line;
this.state.text = null;
try {
    var m:int = input.mark();
    this.state.backtracking=1; <! means we won't throw slow exception !>
    this.state.failed=false;
    mTokens();
    this.state.backtracking=0;
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( this.state.failed ) {
        input.rewindTo(m);
        input.consume(); <! advance one char and try again !>
    }
    else {
        emit();
        return this.state.token;
    }
}
catch (re:RecognitionException) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
// Not reached - For ActionScript compiler
throw new Error();
}

public override function memoize(input:IntStream,
    ruleIndex:int,
    ruleStartIndex:int):void
{
    if ( this.state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
    if ( this.state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}
}
>>

```

```
actionGate() ::= "this.state.backtracking==0"
```

```
filteringActionGate() ::= "this.state.backtracking==1"
```

```
/** How to generate a parser */
```

```
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
```

```
    bitsets, inputStreamType, superClass, filterMode,
```

```
    ASTLabelType="Object", labelType, members, rewriteElementType) ::= <<
```

```
public class <grammar.recognizerName> extends
```

```
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass>
```

```
><@end><endif> {
```

```
<if(grammar.grammarIsRoot)>
```

```
    public static const tokenNames:Array = [
```

```
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
```

```
    ];<\n>
```

```
<endif>
```

```
    <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
```

```
    // delegates
```

```
    <grammar.delegates:
```

```
        {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
```

```
    // delegators
```

```
    <grammar.delegators:
```

```
        {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
```

```
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>
```

```
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
```

```
    <@members>
```

```
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
```

```
    public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName()>:<g.recognizerName>, }>input:<inputStreamType>, state:RecognizerSharedState = null) {
```

```
        super(input, state);
```

```
        <cyclicDFAs:cyclicDFACTor()>
```

```
        <parserCtorBody()>
```

```
        <grammar.directDelegates:
```

```
            {g|<g.delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>this, input, this.state);}; separator="\n">
```

```
        <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegateName()>.<g.delegateName()>;}; separator="\n">
```

```
        <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
```

```
    }
```

```
    <@end>
```

```
    public override function get tokenNames():Array { return
```

```
    <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
```

```
    public override function get grammarFileName():String { return "<fileName>"; }
```



```

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
  // Delegated rules
  <grammar.delegatedRules:{ruleDescriptor|
    public function
  <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType()> \{
  <if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar.delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:
  {a|<a.name>}; separator=", ">); \} }; separator="\n">

  <synpreds:{p | <synpred(p)>}>

  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

  <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>
  }
  >>

  parserCtorBody() ::= <<
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);<\n> <! index from 1..n !>
  <endif>
  <endif>
  <grammar.delegators:
  {g|this.<g.delegateName()> = <g.delegateName()>}; separator="\n">
  >>

  parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
  superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
  <genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
  >>

  /** How to generate a tree parser; same as parser except the input
  * stream is a different type.
  */
  treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
  labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
  members={<actions.treeparser.members>}, filterMode) ::= <<
  <genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
  >>

  /** A simpler version of a rule template that is specific to the imaginary

```

```

* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
    <ruleLabelDefs()>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final function <name>():Boolean {
    this.state.backtracking++;
    <@start()>
    var start:int = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
        trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
    <@stop()>
    this.state.backtracking--;
    this.state.failed=false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

ruleMemoization(name) ::= <<
<if(memoize)>
if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
// $ANTLR start <ruleName>
// <fileName>:<description>
public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType()> {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try {
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (re:RecognitionException) {
reportError(re);
recoverStream(input,re);

```

```

    <@setErrorReturnValue()>
    }<\n>
<endif>
<endif>
<endif>
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
var retval:<returnType()> = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
var <ruleDescriptor.name>_startIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.push(new Object());}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.push(new Object());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<

```

```

<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {var <it.label.text>:<labelType>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{var <it.label.text>:int;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {var list_<it.label.text>:Array=null;}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }

```

```

<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
<if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block><\n>
<else>
        var _type:int = <ruleName>;
        var _channel:int = DEFAULT_TOKEN_CHANNEL;
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        this.state.type = _type;
        this.state.channel = _channel;
        <(ruleDescriptor.actions.after):execAction()>
<endif>
    }
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <ruleScopeCleanUp()>
        <memoize()>
    }
}
// $ANTLR end <ruleName>
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
    <block><\n>
}

```

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>

var alt<decisionNumber>:int=<maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

<@prebranch()>

switch (alt<decisionNumber>) {

<alts:altSwitchCase()>

}

<@postbranch()>

>>

/** A rule block with multiple alternatives */

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>

var alt<decisionNumber>:int=<maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>) {

<alts:altSwitchCase()>

}

>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

/** A special case of a (...) subrule with a single alternative */

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

```

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>:int=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
  if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
  <ruleBacktrackFailure()>
    throw new EarlyExitException(<decisionNumber>, input);
    <! Need to add support for earlyExitException debug hook !>
  }
  cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
  break loop<decisionNumber>;
  }
} while (true);
<@postloop()>

```



```

>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
  <@prealt(>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<

```

```

<if(label)><label>=<labelType><endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><element
Index><if(label)><endif>; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=<labelType>(input.LT(1));<\n>
<endif>
<endif>
if ( <s> ) {
    input.consume();
    <postmatchCode>
<if(!LEXER)>
    this.state.errorRecovery=false;
<endif>
    <if(backtracking)>this.state.failed=false;<endif>
}

```

```

else {
    <ruleBacktrackFailure()>
    <@mismatchedSetException()>
<if(LEXER)>
    throw recover(new MismatchedSetException(null,input));<\n>
<else>
    throw new MismatchedSetException(null,input);
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
var <label>Start:int = charIndex;
matchString(<string>); <checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<else>
matchString(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=<labelType>(input.LT(1));<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>

```

```

<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 *
 * GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
 * See: https://bugs.adobe.com/jira/browse/ASC-3625
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name><(<args; separator=", ">);<\n>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
<if(scope)><scope.delegateName()>.<endif>m<rule.name><(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
<if(scope)><scope.delegateName()>.<endif>m<rule.name><(<args; separator=", ">);

```

```

<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType> = CommonToken.createFromStream(input, EOF,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) ) {
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}

```

>>

// F i x e d D F A (if-then-else)

```
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
  <! Need to add hook for noViableAltException() !>
<endif>
}
>>
```

```
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
```

```
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>
```

```
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
```

```
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
  alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>
```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates><endif>) {
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <! Need to add hook for noViableAltException !>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
  <targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

cyclicDFActor(dfa) ::= <<

dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
  "<dfa.description>",
  DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
  DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
  DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
  DFA<dfa.decisionNumber>_specialStateTransition<endif>);

>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<

private const DFA<dfa.decisionNumber>_eot:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap=\"\"+\n  \>");
private const DFA<dfa.decisionNumber>_eof:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap=\"\"+\n  \>");
private const DFA<dfa.decisionNumber>_min:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap=\"\"+\n  \>", true);
private const DFA<dfa.decisionNumber>_max:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap=\"\"+\n  \>", true);
private const DFA<dfa.decisionNumber>_accept:Array =

```



```

    DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap=\"\"+\n  \>");
private const DFA<dfa.decisionNumber>_special:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap=\"\"+\n  \>");
private const DFA<dfa.decisionNumber>_transition:Array = [
    <dfa.javaCompressedTransition:{s|DFA.unpackEncodedString("<s; wrap=\"\"+\n\>")}; separator="\n">
];
<if(dfa.specialStateSTs)>
    private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:InputStream):int {
        <if(LEXER)>
            var input:InputStream = _input;
        <endif>
        <if(PARSER)>
            var input:TokenStream = TokenStream(_input);
        <endif>
        <if(TREE_PARSER)>
            var input:TreeNodeStream = TreeNodeStream(_input);
        <endif>
        var _s:int = s;
        switch ( s ) {
            <dfa.specialStateSTs:{state |
                case <i0> : <! compressed special state numbers 0..n-1 !>
                    <state>}; separator="\n">
            }
        <if(backtracking)>
            if (this.state.backtracking>0) {this.state.failed=true; return -1;}<\n>
        <endif>
        throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
    }<\n>
    <endif>

protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor

>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFASState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
var index<decisionNumber>_<stateNumber>:int = input.index;
input.rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>

```

```

if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<first(operands)><rest(operands): {o | ||<o>}>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lowerAsInt> &&
LA<decisionNumber>_<stateNumber>\<=<upperAsInt>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
"(input.LA(<k>)\>=<lowerAsInt> && input.LA(<k>)\<=<upperAsInt>)"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

```

```
// A T T R I B U T E S
```

```
globalAttributeScope(scope) ::= <<  
<if(scope.attributes)>  
protected var <scope.name>_stack:Array = new Array();<\n>  
<endif>  
>>
```

```
ruleAttributeScope(scope) ::= <<  
<if(scope.attributes)>  
protected var <scope.name>_stack:Array = new Array();<\n>  
<endif>  
>>
```

```
returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"
```

```
returnType() ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
<returnStructName()>  
<else>  
<if(ruleDescriptor.hasSingleReturnValue)>  
<ruleDescriptor.singleValueReturnType>  
<else>  
void  
<endif>  
<endif>  
>>
```

```
/** Generate the Java type associated with a single or multiple return  
 * values.  
 */
```

```
ruleLabelType(referencedRule) ::= <<  
<if(referencedRule.hasMultipleReturnValues)>  
<returnStructName()>  
<else>  
<if(referencedRule.hasSingleReturnValue)>  
<referencedRule.singleValueReturnType>  
<else>  
void  
<endif>  
<endif>  
>>
```

```
delegateName() ::= <<  
<if(it.label)><it.label><else>g<it.name><endif>  
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
```

```

* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
    <scope.attributes:{public <it.decl>;}; separator="\n">
    <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.name>:<it.type>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>;
<else>

```

```

<if(index)>
<scope>_stack[<index>].<attr.name> =<expr>;
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>0 && $function::name.equals("foo"))}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

```

```

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>!=null?<scope>.text:null"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>!=null?<scope>.type:0"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=null?<scope>.line:0"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=null?<scope>.charPositionInLine:0"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=null?<scope>.channel:0"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=null?<scope>.tokenIndex:0"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int(<scope>.text):0"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?<labelType>(<scope>.start):null"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?<labelType>(<scope>.stop):null"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?<ASTLabelType>(<scope>.tree):null"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.tokenStream.toStringWithRange(
input.treeAdaptor.getTokenStartIndex(<scope>.start),
input.treeAdaptor.getTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.toStringWithRange(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.st:null"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"<scope>!=null?<scope>.type:0"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"<scope>!=null?<scope>.lien:0"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"<scope>!=null?<scope>.charPositionInLine:0"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"<scope>!=null?<scope>.channel:0"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"<scope>!=null?<scope>.tokenIndex:0"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
"<scope>!=null?<scope>.text:null"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
"<scope>!=null?int(<scope>.text):0"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>

```

```

input.tokenStream.toStringWithRange(
    input.treeAdaptor.getTokenStartIndex(retval.start),
    input.treeAdaptor.getTokenStopIndex(retval.start))
<else>
input.toStringWithRange(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static const <name>:BitSet = new BitSet([<words64:{<it>}separator=", ">]);<\n>
>>

codeFileExtension() ::= ".as"

true() ::= "true"
false() ::= "false"

```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/


```

group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_First[0] := nil;
_Last := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
_First, _Save_Last: array [0..63] of I<ASTLabelType>;
_Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (State.Backtracking = 0) then
begin<endif>
<if(rewriteMode)>
RetVal.Tree := _First[0] as I<ASTLabelType>;
if (Adaptor.GetParent(RetVal.Tree) \<\> nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then
RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;
<endif>
<if(backtracking)>end;<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
begin
_Save_Last[<treeLevel>] := _Last;
_First[<treeLevel>] := nil;
<if(!rewriteMode)>
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;<\n>
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(root.el.rule)>
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
<else>
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;

```

```

<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
  Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
<endif>
  _Last := _Save_Last[<treeLevel>];
end;<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin<\n>
  <endif>
  <if(hetero)>
  <label>_tree := T<hetero>.Create(<label>);
  <else>
  <label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
  <endif><\n>
  Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
  <if(backtracking)>

```

```

end;
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>

```

```

<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> <! rewrite mode !>

```

```

if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRuleRootTrackAndListLabel(...)>

```

>>

```
/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
>>
```

```
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
RefVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.
```

/*

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*/

/* in sync with Java/Java.stg revision 107 */

group Python implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.

*/

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::=

<<

\$ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>

import sys

from antlr3 import *

<if(TREE_PARSER)>

from antlr3.tree import *<\n

<endif>

from antlr3.compat import set, frozenset

<@end>

<actions.(actionScope).header>

<! <docComment> !>

for convenience in actions

HIDDEN = BaseRecognizer.HIDDEN

token types

<tokens:{<it.name>=<it.type>}; separator="\n">

```

<recognizer>

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)<\n>
<endif>
<if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)<\n>
<endif>
<if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)<\n>
<endif>
    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)<\n>
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':
    main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>

    grammarFileName = "<fileName>"
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>"

    def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
            super(<grammar.recognizerName>, self).__init__(input, state)

```



```

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>

    <grammar.directDelegates:
        {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
state)}; separator="\n">
    <grammar.delegators:
        {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
    <last(grammar.delegators):
        {g|self.gParent = <g:delegateName()>}; separator="\n">

    <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

    <actions.lexer.init>

    <actions.lexer.members>

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return EOF_TOKEN

        self._state.token = None
        self._state.channel = DEFAULT_CHANNEL

```

```

self._state.tokenStartCharIndex = self.input.index()
self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
self._state.tokenStartLine = self.input.line
self._state._text = None
try:
    m = self.input.mark()
    try:
        # means we won't throw slow exception
        self._state.backtracking = 1
        try:
            self.mTokens()
        finally:
            self._state.backtracking = 0

    except BacktrackingFailed:
        # mTokens backtracks with synpred at backtracking==2
        # and we set the synpredgate to allow actions at level 1.
        self.input.rewind(m)
        self.input.consume() # advance one char and try again

    else:
        self.emit()
        return self._state.token

except RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        <@superClassName><superClass><@end>.memoize(self, input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return <@superClassName><superClass><@end>.alreadyParsedRule(self, input, ruleIndex)
    return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

```

```
/** How to generate a parser */
```

```
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,  
              bitsets, inputStreamType, superClass, filterMode,  
              ASTLabelType="Object", labelType, members, rewriteElementType,  
              init) ::= <<  
<if(grammar.grammarIsRoot)>  
# token names  
tokenNames = [  
  "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",  
  <tokenNames; wrap, separator=", ">  
<\n>  
<else>  
from <grammar.composite.rootGrammar.recognizerName> import tokenNames<\n>  
<endif>  
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>  
  
<grammar.directDelegates:  
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">  
  
<rules:{<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>  
  
class <grammar.recognizerName>(<@superClassName><superClass><@end>):  
  grammarFileName = "<fileName>"  
  antlr_version = version_str_to_tuple("<ANTLRVersion>")  
  antlr_version_str = "<ANTLRVersion>"  
  tokenNames = tokenNames  
  
  def __init__(self<grammar.delegators:{g| <g.delegateName()>}>, input, state=None, *args, **kwargs):  
    if state is None:  
      state = RecognizerSharedState()  
  
    <@args()>  
    super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)  
  
<if(memoize)>  
<if(grammar.grammarIsRoot)>  
  self._state.ruleMemo = {}  
<endif>  
<endif>  
  
  <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">  
  
  <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}>  
<rules:{<ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}>  
  
<init>
```

```

<grammar.delegators:
  {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
<grammar.directDelegates:
  {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
state)); separator="\n">
  <!grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(self<grammar.delegators:{g|, <g:delegateName()>}>,
input, state)); separator="\n"!>
  <last(grammar.delegators):
    {g|self.gParent = self.<g:delegateName()>}; separator="\n">

  <@init>
  <@end>

<@members>
<@end>

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
# Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{<it>};separator=",
">])<\n>}>

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<\> <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.att
ributes:{a|<a.name>}; separator=", ">)

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", init={<actions.parser.init>, ...}>

```

```
>>
```

```
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node",
init={<actions.treeparser.init>}, ...)>
>>
```

```
/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
  self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
  try:
    <block>

  finally:
    self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)

<else>
  <block>
<endif>
# $ANTLR end "<ruleName>"
>>
```

```
synpred(name) ::= <<
def <name>(self):
  self._state.backtracking += 1
  <@start()>
  start = self.input.mark()
  try:
    self.<name>_fragment()
  except BacktrackingFailed:
    success = False
```

```

else:
    success = True
    self.input.rewind(start)
    <@stop()>
    self._state.backtracking -= 1
    return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>

<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if self._state.backtracking > 0:
    raise BacktrackingFailed

<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope;parameterScope(scope=it)>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>

```

```

<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
<@body><ruleBody()><@end>
<@postamble()>
return <ruleReturnValue()>

# $ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
<if(memoize)>
<if(backtracking)>
success = False<\n>
<endif>
<endif>
try:
  try:
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>

<if(memoize)>
<if(backtracking)>
  success = True<\n>
<endif>
<endif>
<if(exceptions)>
  <exceptions: { e | <catch(decl=e.decl,action=e.action)><\n> } >
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  except RecognitionException, re:
    self.reportError(re)
    self.recover(self.input, re)
    <@setErrorReturnValue()>

<endif>
<else>
  finally:
    pass

<endif>
<endif>
finally:

```

```

<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
  pass
>>

catch(decl,action) ::= <<
except <e.decl>:
  <e.action>

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval = self.<ruleDescriptor.name>_return()
retval.start = self.input.LT(1)<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> = <if(a.initValue)><a.initValue><else>None<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { self.<it>_stack.append(<it>_scope()); separator="\n">
<ruleDescriptor.ruleScope: { self.<it.name>_stack.append(<it.name>_scope()); separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: { self.<it>_stack.pop(); separator="\n">
<ruleDescriptor.ruleScope: { self.<it.name>_stack.pop(); separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: { <it.label.text> = None }; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: { list_<it.label.text> = None }; separator="\n"
>

```



```

<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
  :ruleLabelDef(label=it); separator="\n"
>
<ruleDescriptor.ruleListLabels:{<it.label.text> = None}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :{<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.charLabels:{<it.label.text> = None}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
  :{list_<it.label.text> = None}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)

<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
  self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
  success = False<\n>
<endif>
<endif>
  try:
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><\n>
  <else>
    _type = <ruleName>
    _channel = DEFAULT_CHANNEL

    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    self._state.type = _type
    self._state.channel = _channel
    <(ruleDescriptor.actions.after):execAction()>
  <endif>
<if(memoize)>
<if(backtracking)>
  success = True<\n>
<endif>
<endif>

  finally:
<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
  <ruleScopeCleanUp()>
  <memoize()>

```

```

pass

# $ANTLR end "<ruleName>"

>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block><\n>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@body><blockBody()><@end>
>>

blockBody() ::= <<
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<@prebranch()>
<alts:altSwitchCase(); separator="\n" >
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<alts:altSwitchCase(); separator="\n" >
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

```

```

# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
cnt<decisionNumber> = 0
<decls>
<@preloop()>
<@loopBody>
<positiveClosureBlockLoop()>
<@end>
<@postloop()>
>>

positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  <@predecision()>
  <@decisionBody><decision><@end>
  <@postdecision()>
  <alts:altSwitchCase(); separator="\nel">
  else:
    if cnt<decisionNumber> >= 1:
      break #loop<decisionNumber>

  <ruleBacktrackFailure()>
  eee = EarlyExitException(<decisionNumber>, self.input)
  <@earlyExitException()>
  raise eee

  cnt<decisionNumber> += 1
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (.)^{*} block with 1 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

<fileName>:<description>

<decls>

<@preloop()>

<@loopBody>

<closureBlockLoop()>

<@end>

<@postloop()>

>>

closureBlockLoop() ::= <<

while True: #loop<decisionNumber>

 alt<decisionNumber> = <maxAlt>

 <@predecision()>

 <@decisionBody><decision><@end>

 <@postdecision()>

 <alts:altSwitchCase(); separator="\n" >

 else:

 break #loop<decisionNumber>

>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation

* so we can just use the normal block template

*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative

* number. A DFA predicts the alternative and then a simple switch

* does the jump to the code that actually matches that alternative.

*/

altSwitchCase() ::= <<

if alt<decisionNumber> == <i>:

 <@prealt()>

 <it>

>>

/** An alternative is just a list of elements; at outermost level */

alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<

<fileName>:<description>

pass <! so empty alternatives are a valid block !>

```

<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>

```

```

<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
    self.input.consume()
    <postmatchCode>
<if(!LEXER)>
    self._state.errorRecovery = False<\n>
<endif>

else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
<if(LEXER)>
    self.recover(mse)
    raise mse
<else>
    raise mse
    <! use following code to make it recover inline; remove throw mse;
    self.recoverFromMismatchedSet(
        self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
    )
    !>
<endif>
<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label> = CommonToken(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,

```

```
start=<label>Start, stop=self.getCharIndex()-1)
```

```
<else>
```

```
self.match(<string>)
```

```
<endif>
```

```
>>
```

```
wildcard(label,elementIndex) ::= <<
```

```
<if(label)>
```

```
<label> = self.input.LT(1)<\n>
```

```
<endif>
```

```
self.matchAny(self.input)
```

```
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<
```

```
<wildcard(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match . wildcard in lexer */
```

```
wildcardChar(label, elementIndex) ::= <<
```

```
<if(label)>
```

```
<label> = self.input.LA(1)<\n>
```

```
<endif>
```

```
self.matchAny()
```

```
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
```

```
<wildcardChar(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
```

```
* and a return value or values. The 'rule' argument was the
```

```
* target rule name, but now is type Rule, whose toString is
```

```
* same: the rule name. Now though you can access full rule
```

```
* descriptor stuff.
```

```
*/
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```

```
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
```

```
<if(label)><label> = <endif>self.<if(scope)><scope.delegateName()>.<endif><rule.name><(<args; separator=",
```

```
">)<\n>
```

```
self._state.following.pop()
```

```
>>
```

```
/** ids+=rule */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRef(...)>
```

```
<listLabel(elem=label,...)>
```



```
>>
```

```
/** A lexer rule reference
```

```
* The 'rule' argument was the target rule name, but now
```

```
* is type Rule, whose toString is same: the rule name.
```

```
* Now though you can access full rule descriptor stuff.
```

```
*/
```

```
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
```

```
<if(label)>
```

```
<label>Start<elementIndex> = self.getCharIndex()
```

```
self.<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">
```

```
<label> = CommonToken(
```

```
    input=self.input,
```

```
    type=INVALID_TOKEN_TYPE,
```

```
    channel=DEFAULT_CHANNEL,
```

```
    start=<label>Start<elementIndex>,
```

```
    stop=self.getCharIndex()-1
```

```
    )
```

```
<else>
```

```
self.<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">
```

```
<endif>
```

```
>>
```

```
/** i+=INT in lexer */
```

```
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
```

```
<lexerRuleRef(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** EOF in the lexer */
```

```
lexerMatchEOF(label,elementIndex) ::= <<
```

```
<if(label)>
```

```
<label>Start<elementIndex> = self.getCharIndex()
```

```
self.match(EOF)
```

```
<label> = CommonToken(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
```

```
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
```

```
<else>
```

```
self.match(EOF)
```

```
<endif>
```

```
>>
```

```
/** match ^(root children) in tree parser */
```

```
tree(root, actionsAfterRoot, children, nullableChildList,
```

```
    enclosingTreeLevel, treeLevel) ::= <<
```

```
<root:element()>
```

```
<actionsAfterRoot:element()>
```

```
<if(nullableChildList)>
```

```
if self.input.LA(1) == DOWN:
```

```

    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(...)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")

>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
else:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
    <@noViableAltException()>
    raise nvae<\n>
<endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
>>

/** A DFA state that is actually the loopback decision of a closure

```

```

* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
    alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
    <targetState>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<!
    FIXME: this is one of the few occasion, where I miss a switch statement
    in Python. ATM this is implemented as a list of if .. elif ..
    This may be replaced by faster a dictionary lookup, when I find a solution
    for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>

```

```

<else>
  <ruleBacktrackFailure()>
  nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
  <@noViableAltException()>
  raise nvae<\n>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
<if(eotPredictsAlt)>
else:
  alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{LA<decisionNumber> == <it>}; separator=" or ">:
  <targetState>
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

```

```

DFA<dfa.decisionNumber>_eot = DFA.unpack(
    u"<dfa.javaCompressedEOT; wrap="\n  u\>"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
    u"<dfa.javaCompressedEOF; wrap="\n  u\>"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
    u"<dfa.javaCompressedMin; wrap="\n  u\>"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
    u"<dfa.javaCompressedMax; wrap="\n  u\>"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
    u"<dfa.javaCompressedAccept; wrap="\n  u\>"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(
    u"<dfa.javaCompressedSpecial; wrap="\n  u\>"
)

DFA<dfa.decisionNumber>_transition = [
    <dfa.javaCompressedTransition: {s|DFA.unpack(u"<s; wrap="\nu\>"}); separator=",\n">
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

    <@errorMethod()>

    <if(dfa.specialStateSTs)>
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_ magic is ok ;)
        # pylint: disable-msg=E0213

        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
        self = self_.recognizer

        _s = s

```

```

    <dfa.specialStateSTs:{state |
if s == <i0>: <!-- compressed special state numbers 0..n-1 !>
    <state>} ; separator="\n!>

<if(backtracking)>
    if self._state.backtracking >0:
        raise BacktrackingFailed

<endif>
    nvae = NoViableAltException(self._getDescription(), <dfa.decisionNumber>, _s, input)
    self._error(nvae)
    raise nvae<\n>
<endif>

>>

cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>_eot,
    eof = self.DFA<dfa.decisionNumber>_eof,
    min = self.DFA<dfa.decisionNumber>_min,
    max = self.DFA<dfa.decisionNumber>_max,
    accept = self.DFA<dfa.decisionNumber>_accept,
    special = self.DFA<dfa.decisionNumber>_special,
    transition = self.DFA<dfa.decisionNumber>_transition
)<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)<\n>
<if(semPredState)> <!-- get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()
input.rewind()<\n>
<endif>
s = -1
<edges; separator="\n!>
<if(semPredState)> <!-- return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<\n>
<endif>
if s >= 0:
    return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what

```

```

* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr><if(predicates)> and (<predicates><endif>:
    s = <targetStateNumber><\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
    s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | or <o>}>)"

notPredicate(pred) ::= "not (<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "self.<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(<lower> \<= LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \<=
self.input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" or \\\">"

// A T T R I B U T E S

globalAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>

```

```

class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{self.<it.decl> = None }; separator="\n">

<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{self.<it.decl> = None }; separator="\n">

<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None<\n>
>>

returnStructName() ::= "<it.name>_return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>(<it.name>Tree<else>Parser<endif>RuleReturnScope):
    def __init__(self):
        super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

```



```

    <scope.attributes:{self.<it.decl> = None}; separator="\n">
    <@ruleReturnInit()>

    <@ruleReturnMembers()>

<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
<if(index)>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
>>

/* not applying patch because of bug in action parser!

<if(negIndex)>
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
<else>
<if(index)>
((<index> \< len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
<endif>
<endif>

*/

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<!--FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>

```

```

<if(index)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;

```

```

// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
    ]) or [None])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"

```

```
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"
```

```
// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"
```

```
/** How to execute an action (only when not backtracking) */
```

```
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
    <action>
```

```
<else>
if <actions.(actionScope).synpredgate>:
    <action>
```

```
<endif>
<else>
#action start
<action>
#action end
<endif>
>>
```

```
/** How to always execute an action even when backtracking */
```

```
execForcedAction(action) ::= "<action>"
```

```
// M I S C (properties, etc...)
```

```
codeFileExtension() ::= ".py"
```

```
true() ::= "True"
false() ::= "False"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Python/Python.stg
```

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

```
/* [The "BSD licence"]
```

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*/

group Delphi implements ANTLRCore;

```
csharpTypeInitMap ::= [  
  "int": "0",  
  "uint": "0",  
  "long": "0",  
  "ulong": "0",  
  "float": "0.0",  
  "double": "0.0",  
  "bool": "False",  
  "byte": "0",  
  "sbyte": "0",  
  "short": "0",  
  "ushort": "0",  
  "char": "#0",  
  "string": "",  
  "String": "",  
  default: "nil" // anything other than an atomic type  
]
```

```

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * TREE_PARSER (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 * tokens (HashMap<name: String, type: Integer>):
 * tokenNames:
 * rules:
 * cyclicDFAs:
 * bitsets:
 * buildTemplate (Boolean): should we generate a string template?
 * buildAST (Boolean): should we generate an AST?
 * rewriteMode (Boolean): are we rewriteing nodes?
 * profile (Boolean):
 * backtracking (Boolean): backtracking mode?
 * synpreds (): syntactic predicates
 * memoize (Boolean): should we memoize?
 * numRules (Integer): number of rules
 * fileName (String): fully qualified name of original .g file
 * ANTLRVersion (String): ANTLR version in Major.Minor.Build format
 * generatedTimestamp (String): date/time when the file is generated
 * trace (Boolean): should we trace input/output?
 * scopes:
 * superClass (String): name of base class, or empty string
 * literals:
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=
<<
unit <name>;

{$HINTS OFF}

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<actions.(actionScope).header>

interface

```

```

<@imports>
uses<\n>
<@end>
<actions.(actionScope).usesInterface>
<if(TREE_PARSER)>
  Antlr.Runtime.Tree,<\n>
<endif>
  Antlr.Runtime,
  Antlr.Runtime.Collections,
  Antlr.Runtime.Tools;

<docComment>
<recognizer>
>>

/** Generates source code for the lexer class
 * grammar (Grammar object)
 */
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
  filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
strict private
  FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
  FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
  FException: ERecognitionException;
  procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>
public
  const
    <tokens:{<it.name> = <it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
strict private
  <actions.(actionScope).memberDeclarations>
public
  // delegates
  <grammar.delegates: {g|<g.delegateName():> I<superClass>; {<g.recognizerName>}}; separator="\n">
public
  // delegators
  <grammar.delegators: {g|<g.delegateName():> Pointer; {<g.recognizerName>}}; separator="\n">
  <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>
protected
  { IBaseRecognizer }

```

```

    function GetGrammarFileName: String; override;
<if(filterMode)>
    function AlreadyParsedRule(const Input: IIntStream;
        const RuleIndex: Integer): Boolean; override;
    procedure Memoize(const Input: IIntStream; const RuleIndex,
        RuleStartIndex: Integer); override;
protected
    { ILexer }
    function NextToken: IToken; override;<\n>
<endif>
protected
    { ILexer }
    procedure DoTokens; override;
public
    constructor Create; overload;
    constructor Create(const AInput: ICharStream<grammar.delegators:{g}; const A<g:delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
    constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g};
const A<g:delegateName(): IBaseRecognizer{<g.recognizerName>}>); overload;

    <rules: {r | <if(!r.ruleDescriptor.isSynPred)><lexerRuleDeclaration(r)><endif>}>
    <synpreds: {p | <lexerSynpredDeclaration(p)>} ; separator="\n">
end;

```

implementation

uses

```

<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
<grammar.delegators: {g|<g.recognizerName>,}; separator="\n">
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

```

```
{ T<grammar.recognizerName> }
```

```
constructor T<grammar.recognizerName>.Create;
```

```
begin
```

```
    InitializeCyclicDFAs;
```

```
end;
```

```
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegators:{g}; const
A<g:delegateName(): IBaseRecognizer{<g.recognizerName>}>);
```

```
begin
```

```
    Create(AInput, nil<grammar.delegators:{g}, A<g:delegateName()>>);
```

```
end;
```

```
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
```



```

IRecognizerSharedState<grammar.delegators:{g}; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName>}>);
begin
  inherited Create(AInput, AState);
  InitializeCyclicDFAs; { TODO: Necessary in Delphi??? Not removed yet. }
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  State.RuleMemoCount := <numRules>+1;<\n> <! index from 1..n !>
  <endif>
  <endif>
  <grammar.directDelegates:
  {g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegators):{p|,
  <p:delegateName()>}, Self);}; separator="\n">
  <grammar.delegators:
  {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
  <last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}>
  <actions.(actionScope).memberInitializations>
  end;
  <actions.(actionScope).memberImplementations>
  function T<grammar.recognizerName>.GetGrammarFileName: String;
  begin
    Result := '<fileName>';
  end;

  <if(filterMode)>
  <filteringNextToken()>
  <endif>

  <rules; separator="\n\n">
  <synpreds:{p | <lexerSynpred(p)>}>

  procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
  begin
    <cyclicDFAs:{ dfa | FDFA<dfa.decisionNumber> :=
  TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>);}; separator="\n">
    <cyclicDFAs:{ dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
  DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
  end;

  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
  end.>>

  lexerRuleDeclaration(rule) ::= <<
  procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);<\n>
  >>

  /** A override of Lexer.nextToken() that backtracks over mTokens() looking
  * for matches. No error can be generated upon error; just rewind, consume

```

```

* a token and then try again. backtracking needs to be set as well.
*
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
  M: Integer;
begin
  while (True) do
  begin
    if (Input.LA(1) = Integer(cscEOF)) then
      Exit(TToken.EOF_TOKEN);

    State.Token := nil;
    State.Channel := TToken.DEFAULT_CHANNEL;
    State.TokenStartCharIndex := Input.Index;
    State.TokenStartCharPositionInLine := Input.CharPositionInLine;
    State.TokenStartLine := Input.Line;
    State.Text := "";
    try
      M := Input.Mark();
      State.Backtracking := 1; <! means we won't throw slow exception !>
      State.Failed := False;
      mTokens();
      State.Backtracking := 0;
    <!
      mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1.
    !>
    if (State.Failed) then
    begin
      Input.Rewind(M);
      Input.Consume; <! // advance one char and try again !>
    end
    else
    begin
      Emit;
      Exit(State.Token);
    end;
  except
  on RE: ERecognitionException do
  begin
    // shouldn't happen in backtracking mode, but...
    ReportError(RE);
    Recover(RE);
  end;
end;

```

```

    end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
const RuleIndex: Integer): Boolean;
begin
if (State.Backtracking > 1) then
    Result := inherited AlreadyParsedRule(Input, RuleIndex)
else
    Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex,
RuleStartIndex: Integer);
begin
if (State.Backtracking > 1) then
    inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

>>

filteringActionGate() ::= "(State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>>>
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
    <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>>>
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>
public
    const
        TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = (
            '\<invalid>',
            '\<EOR>',
            '\<DOWN>',
            '\<UP>',
            <tokenNames; separator=",\n">);<\n>
<endif>
public
    const

```

```

    <tokens:{<it.name> = <it.type>; separator="\n">
public
    // delegates
    <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
    // delegators
    <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
    <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>

    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}>
<@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public
    constructor Create(const AInput: <inputStreamType><grammar.delegators:{g|; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
    constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegators:{g|; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
<@end>
protected
    { IBaseRecognizer }
    function GetTokenNames: TStringArray; override;
    function GetGrammarFileName: String; override;
strict private
    <actions.(actionScope).memberDeclarations>
    <rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>}>

    <! generate rule/method definitions for imported rules so they
    appear to be defined in this recognizer. !>
    // Delegated rules
    <grammar.delegatedRules:{ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>}>

    <synpreds:{p | <synpredDeclaration(p)>}; separator="\n">
    <cyclicDFAs:cyclicDFADeclaration()>
strict private
    FException: ERecognitionException;
    FLA: array [0..<grammar.numberofDecisions>, 0..255] of Integer;
    FCnt: array [0..<grammar.numberofDecisions>] of Byte;
    procedure InitializeCyclicDFAs;
    <if(bitsets)>
public
    class var
        <bitsets.bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
    class procedure InitializeBitsets; static;<\n>
    <endif>
end;

```

implementation

uses

```
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
```

```
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
```

```
<actions.(actionScope).usesImplementation>
```

```
SysUtils,
```

```
StrUtils,
```

```
Math;
```

```
{ T<grammar.recognizerName> }
```

```
constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType><grammar.delegates:{g|; const  
A<g:delegateName(): IBaseRecognizer {<g.recognizerName> } }>);
```

```
begin
```

```
Create(AInput, TRecognizerSharedState.Create<grammar.delegates: {g|, A<g:delegateName()> }>);
```

```
end;
```

```
constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>;
```

```
const AState: IRecognizerSharedState<grammar.delegates: {g|; const A<g:delegateName()>):
```

```
IBaseRecognizer {<g.recognizerName> } }>);
```

```
begin
```

```
inherited Create(AInput, AState);
```

```
<@membersConstructor>
```

```
<@end>
```

```
<parserCtorBody()>
```

```
<grammar.directDelegates: {g|<g:delegateName()> := T<g.recognizerName>.Create(Input,  
State<trunc(g.delegates): {p|, <p:delegateName()> }>, Self); }; separator="\n">
```

```
<grammar.indirectDelegates: {g | <g:delegateName()> := <g.delegate:delegateName()>.<g:delegateName()>; };  
separator="\n">
```

```
<last(grammar.delegates): {g|gParent := Pointer(A<g:delegateName()>); }>
```

```
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)> }>
```

```
<scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> }>
```

```
<actions.(actionScope).memberInitializations>
```

```
end;
```

```
<actions.(actionScope).memberImplementations>
```

```
<grammar.delegatedRules: {ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)> }; separator="\n">
```

```
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
```

```
begin
```

```
<cyclicDFAs: {dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self); }; separator="\n">
```

```
<cyclicDFAs: {dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=  
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif> }; separator="\n">
```

```
end;
```

```
<if(bitsets)>
```

```
class procedure T<grammar.recognizerName>.InitializeBitsets;
```

```
begin
```

```

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
<endif>

<@membersImplementation>
<@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
  I: Integer;
begin
  SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
  for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
    Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
  end;
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>';
end;

<rules; separator="\n\n">
<synpreds: {p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
initialization
  T<grammar.recognizerName>.InitializeBitsets;<\n>
<endif>
end.>>

delegatedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>;<\n>
<else>
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<\n>
<endif>
<endif>
>>

delegatedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function

```


- * any of the normal memoization stuff in here either; it's a waste.
- * As predicates cannot be inlined into the invoking rule, they need to
- * be in a rule by themselves.

*/

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=

<<

// \$ANTLR start "<ruleName>"

procedure

T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)

;

var

Alt: array [0..<grammar.numberOfDecisions>] of Integer;

<ruleLabelDefVars()>

begin

<ruleLabelDefs()>

<if(trace)>

TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);

try

<block>

finally

TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);

end;

<else>

<block>

<endif>

end;

// \$ANTLR end "<ruleName>"

>>

synpredDecls(name) ::= <<

SynPredPointer <name>;<\n>

>>

synpred(name) ::= <<

function T<grammar.recognizerName>.<name>: Boolean;

var

Start: Integer;

Success: Boolean;

begin

State.Backtracking := State.Backtracking + 1;

<@start()>

Start := Input.Mark;

try

<name>_fragment(); // can never throw exception

except

on RE: ERecognitionException do

WriteLn('Impossible: ' + RE.ToString);


```

end;
Success := not State.Failed;
Input.Rewind(Start);
<@stop(>
State.Backtracking := State.Backtracking - 1;
State.Failed := False;
Result := Success;
end;<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

lexerSynpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>

synpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
Exit(<ruleReturnValue(>);
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)><\n>if (State.Failed) then Exit(<ruleReturnValue(>);<\n><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (State.Backtracking > 0) then
begin
State.Failed := True;
Exit(<ruleReturnValue(>);
end;<endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>

```

```

<ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
<returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
public
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType()>;<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>
>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType()>;<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>
>>

genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(ruleDescriptor.isSynPred)>
<else>
I<returnType()> = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;<\n>
<endif>
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"

```

```

(* <fileName>:<description> *)
<if(ruleDescriptor.hasMultipleReturnValues)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>;
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>;
<else>
procedure
T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
<endif>
<endif>

var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType()>;<\n>
<else>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationVars()>
<ruleLabelDefVars()>
begin
Locals.Initialize;
try
<if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try
try
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
<if(exceptions)>
<exceptions: { e|<catch(decl=e.decl,action=e.action)><\n} }>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>

```

```

        <actions.(actionScope).rulecatch>
<else>
    except
        on RE: ERecognitionException do
        begin
            ReportError(RE);
            Recover(Input,RE);
            <@setErrorReturnValue()>
        end;<\n>
<endif>
<endif>
<endif>
    end;
    finally
        <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
        end;
        <@postamble()>
    finally
        Locals.Finalize;
    end;
    Exit(<ruleReturnValue()>);
end;
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType()>.Create;
RetVal.Start := Input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name> := <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex := Input.Index();
<endif>
>>

```

```

ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name>: <a.type>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex: Integer;
<endif>
>>

```

```

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { <it>Stack.Push(T<it>Scope.Create); }; separator="\n">
<ruleDescriptor.ruleScope: { <it.name>Stack.Push(T<it.name>Scope.Create); }; separator="\n">
>>

```

```

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: { <it>Stack.Pop(); }; separator="\n">
<ruleDescriptor.ruleScope: { <it.name>Stack.Pop(); }; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]: { <it.label.text> := nil; }; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]: { list_<it.label.text> := nil; }; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: { ll<ll.label.text> := nil; }; separator="\n">
>>

```

```

ruleLabelDefVars() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]: { <it.label.text>: I<labelType>; }; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]: { list_<it.label.text>: IList<IANTLRInterface>; };
separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: { ll<ll.label.text>: <ruleLabelType(referencedRule=ll.referencedRule)>; };
separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: { <it.label.text> := nil; }; separator="\n"
>
<ruleDescriptor.charLabels: { int <it.label.text>; }; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,

```

```

ruleDescriptor.ruleListLabels]
  :{List_<it.label.text> := nil;}; separator="\n"
>
>>

```

```

lexerRuleLabelDefDeclarations() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :{<it.label.text>: I<labelType>;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
  :{List_<it.label.text>: IList;}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
RetVal
<endif>
<else>
<! nil !>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
RetVal.Stop := Input.LT(-1);
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (State.Backtracking > 0) then
Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>

```

>>

```
/** How to generate a rule in the lexer; naked blocks are used for  
* fragment rules.  
*/
```

```
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<  
// $ANTLR start "<ruleName>"  
<ruleDescriptor.parameterScope>  
procedure  
T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);  
var  
  <ruleDescriptor.actions.vars>  
  Locals: TLocalStorage;  
  TokenType, Channel: Integer;  
  Alt: array [0..<grammar.numberOfDecisions>] of Integer;  
  <lexerRuleLabelDefDeclarations()>  
begin  
  Locals.Initialize;  
  try  
    <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>  
    <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>  
    <ruleScopeSetUp()>  
    <ruleDeclarations()>  
    try  
      <if(nakedBlock)>  
        <ruleMemoization(name=ruleName)>  
        <lexerRuleLabelDefs()>  
        <ruleDescriptor.actions.init>  
        <block><\n>  
      <else>  
        TokenType := <ruleName>;  
        Channel := DEFAULT_TOKEN_CHANNEL;  
        <ruleMemoization(name=ruleName)>  
        <lexerRuleLabelDefs()>  
        <ruleDescriptor.actions.init>  
        <block>  
        <ruleCleanup()>  
        State.TokenType := TokenType;  
        State.Channel := Channel;  
        <(ruleDescriptor.actions.after):execAction()>  
      <endif>  
    finally  
      <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>  
      <ruleScopeCleanup()>  
      <memoize()>  
    end;  
  finally  
    Locals.Finalize;
```

```

end;
end;
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
  Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
  <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
  mTokens;
end;
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
case Alt[<decisionNumber>] of
  <alts:altSwitchCase()>
end;
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of

```



```

    <alts:altSwitchCase()>
end;
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
FCnt[<decisionNumber>] := 0;
<decls>
<@preloop()>
while (True) do
begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
else
begin
    if (FCnt[<decisionNumber>] >= 1) then
        Break;
    <ruleBacktrackFailure()>
    raise EEarlyExitException.Create(<decisionNumber>, Input);
    <@earlyExitException()>
end;
end;
Inc(FCnt[<decisionNumber>]);
end;
<@postloop()>

```

>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

(* <fileName>:<description> *)

<decls>

<@preloop()>

while (True) do

begin

Alt[<decisionNumber>] := <maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

case Alt[<decisionNumber>] of

<alts:altSwitchCase()>

else

Break;

end;

end;

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation

* so we can just use the normal block template

*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative

* number. A DFA predicts the alternative and then a simple switch

* does the jump to the code that actually matches that alternative.

*/

altSwitchCase() ::= <<

<i>:

<@prealt()>

<it><\n>

>>

/** An alternative is just a list of elements; at outermost level */

alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<

(* <fileName>:<description> *)

begin

```

<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> := <endif>Match(Input, <token>,
FOLLOW_<token>_in_<ruleName><elementIndex><if(label)> as
I<labelType><endif>;<\n><checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList\<IANTLRInterface\>.Create;
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<

```

```

<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> := Input.LA(1);<\n>
<else>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<endif>
if (<s>) then
begin
Input.Consume;
<postmatchCode>
<if(!LEXER)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(FException);
raise FException;<\n>
<else>
raise FException;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
end;<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */

```

```

lexerStringRef(string,label) ::= <<
<if(label)>
Locals.AsInteger['<label>Start'] := CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start'], CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> := <if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=",">);<\n>
<else>
<if(scope)>T<scope.recognizerName>(IANTLRObject(<scope.delegateName()>).Implementor).<endif><rule.name>

```

```

>(<args; separator=", ">);<\n>
<endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<else>
<if(scope)><scope:delegateName()>.Implementor as T<scope.recognizerName>.<endif>m<rule.name>(<args;
separator=", ">); <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element(>
<actionsAfterRoot:element(>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
    Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure(>
    <children:element(>
    Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure(>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure(>
<children:element(>
Match(Input, TToken.UP, nil);<\n><checkRuleBacktrackFailure(>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (not (<evalPredicate(...)>)) then
begin
    <ruleBacktrackFailure(>
    raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');
end;<\n>
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
begin
<if(eotPredictsAlt)>
    Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<else>
    <ruleBacktrackFailure(>
    raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
<endif>
end;
>>

/** Same as a normal DFA state except that we don't examine lookahead

```

```

* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">;
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\nelse ">;<\n>
<if(eotPredictsAlt)>
<if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
begin
Alt[<decisionNumber>] := <eotPredictsAlt>;
end;<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
<targetState>
end <! no ; here !>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().

```



```

*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n">
else
  begin
  <if(eotPredictsAlt)>
    Alt[<decisionNumber>] := <eotPredictsAlt>;
  <else>
    <ruleBacktrackFailure()>
    <@noViableAltException()>
    raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
  <endif>
  end;
end;<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n">
end;<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n"><\n>
  <if(eotPredictsAlt)>
  else
    Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
  <endif>
  end;<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{<it>}; separator=",\n">:
  begin
    <targetState>
  end;
>>

```

// C y c l i c D F A

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);

```

```

>>

/* Dump DFA tables.
*/
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
  TDFA<dfa.decisionNumber> = class(TDFA)
protected
  { IDFA }
  function Description: String; override;
public
  constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
  FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
  const AInput: IIntStream): Integer;<endif>
>>

cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }

constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
IBaseRecognizer);
const
DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap=""+\n  '>';
DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap=""+\n  '>';
DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap=""+\n  '>';
DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap=""+\n  '>';
DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap=""+\n  '>';
DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap=""+\n  '>';
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (
  <dfa.javaCompressedTransition: {s|<s; wrap=""+\n">'}; separator=",\n">);
begin
inherited Create;
Recognizer := ARecognizer;
DecisionNumber := <dfa.decisionNumber>;
EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

```

```

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
  Result := '<dfa.description>';
end;<\n>
<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S:
Integer;
  const AInput: IIntStream): Integer;
var
  Locals: TLocalStorage;
  <if(LEXER)>
  Input: IIntStream;
  <endif>
  <if(PARSER)>
  Input: ITokenStream;
  <endif>
  <if(TREE_PARSER)>
  Input: ITreeNodeStream;
  <endif>
  _S: Integer;
  NVAE: ENoViableAltException;
begin
  Result := -1;
  Locals.Initialize;
  try
    <if(LEXER)>
    Input := AInput;
    <endif>
    <if(PARSER)>
    Input := AInput as ITokenStream;
    <endif>
    <if(TREE_PARSER)>
    Input := AInput as ITreeNodeStream;
    <endif>
    _S := S;
    case S of
      <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
      <state> <\n> end;}; separator="\n">
      end;
    <if(backtracking)>
    if (State.Backtracking > 0) then
      begin
        State.Failed := True;
        Exit(-1);
      end;<\n>
    <endif>
    NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);

```

```

    DFA.Error(NVAE);
    raise NVAE;
finally
    Locals.Finalize;
end;
end;<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
Input.Rewind;<\n>
<endif>
S := -1;
<edges; separator="\nelse ">;
<if(semPredState)> <! return input cursor to state before we rewound !>
Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n>
<endif>
if (S >= 0) then
    Exit(S);
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
    S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
S := <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{o | or (<o>)}>)"

```

```

notPredicate(pred) ::= "!(<evalPredicate(...>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((FLA[<decisionNumber>,<stateNumber>] \>= <lowerAsInt>) and (FLA[<decisionNumber>,<stateNumber>] \<=
<upperAsInt>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>=
<lowerAsInt>) and (Input.LA(<k>) \<= <upperAsInt>)"

setTest(ranges) ::= "<ranges; separator=\\\" or (\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<scope.name>Stack := TStackList\<I<scope.name>Scope\>.Create;<n>
<endif>
>>

globalAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
  I<scope.name>Scope = interface(IANTLRObject)
  end;
  T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
  protected
    <scope.attributes>:{<it.name>: <it.type>;}; separator="\\n">
  end;
strict protected
<scope.name>Stack: IStackList\<I<scope.name>Scope\>;
<endif>
>>

ruleAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>

```

```

strict protected
type
  I<scope.name>Scope = interface(IANTLRObject)
  end;
  T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
  protected
    <scope.attributes>:{<it.name>: <it.type>;}; separator="\n">
  end;
strict protected
  <scope.name>Stack: IStackList<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<! protected Stack <scope.name>Stack = new Stack();<\n !>
>>

ruleAttributeScopeInit(scope) ::= <<
<if(scope)>
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()>
<! I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope !>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
<! Pointer/void !>
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
I<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>

```

```

void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<csharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> := <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

ruleLabelDefVar(label) ::= <<
<label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{ T<ruleDescriptor:returnStructName()> }

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
<endif>
>>

returnScopeDeclaration(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public
type
T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
end;
<endif>

```

```

>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name> := <expr>;<\n>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
<else>
<scope>
<endif>
>>

```



```

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name> := <expr>;
<else>
<attr.name> := <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(Def(<scope>).Tree as I<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
IfThen(Assigned(<scope>), Input.TokenStream.ToString(
Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), ")
<else>
IfThen(Assigned(<scope>), Input.ToString(
(Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), ")
<endif>
>>

```

```

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "(RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "(RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
Input.TokenStream.ToString(
  Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
  Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
<else>
Input.ToString(RetVal.Start as IToken,Input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "RetVal.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>

```

```

if (<actions.(actionScope).synpredgate>) then
begin
  <action>
end;
<else>
if (State.Backtracking = 0) then
begin
  <action>
end;<\n>
<endif>
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
<name> := TBitSet.Create([<words64: {<it>};separator=",">]);<\n>
>>

bitsetDecl(name) ::= <<
<name>: IBitSet;<\n>
>>

codeFileExtension() ::= ".pas"

true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Delphi/Delphi.stg
No license file was found, but licenses were detected in source scan.

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```

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

* hierarchy is set up as ASTDbg : AST : Dbg : C# by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor

{

get {

<if(grammar.grammarIsRoot)>

return this.adaptor;

<else>

this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor

<endif><\n>

<grammar.directDelegates:{g|<g.delegateName()>.TreeAdaptor = this.adaptor;}>

}

set { this.adaptor = new DebugTreeAdaptor(dbg, value); }

<\n>

>>

parserCtorBody() ::= <<

<super.parserCtorBody()>

>>

createListenerAndHandshake() ::= <<

DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, adaptor);

```

DebugListener = proxy;
<!
Original line follows, replaced by the next two ifs:
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
!>
<if(PARSER)>
TokenStream = new DebugTokenStream(input,proxy);<\n>
<endif>
<if(TREE_PARSER)>
TokenStream = new DebugTreeNodeStream(input,proxy);<\n>
<endif>
try {
    proxy.Handshake();
} catch (IOException ioe) {
    ReportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::= <<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"

@ctorForPredefinedListener.finally() ::= <<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>

@rewriteElement.pregen() ::= "dbg.Location(<e.line>,<e.pos>);"

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp/ASTDbg.stg
No license file was found, but licenses were detected in source scan.

/*
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```

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*/

```
group CSharp2 implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
* and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<@debugPreprocessor(>
```

```
// The variable 'variable' is assigned but its value is never used.
```

```
#pragma warning disable 168, 219
```

```
// Unreachable code detected.
```

```
#pragma warning disable 162
```

```

<actions.(actionScope).header>

<@imports>
using System;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;

<if(backtracking)>
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
<endif>

<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
    filterMode, superClass="Lexer") ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end> {
    <tokens:{public const int <it.name> = <it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    public <grammar.recognizerName>() <! needed by subclasses !>
    {

```

```

InitializeCyclicDFAs();
}
public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|,<g.recognizerName>
<g.delegateName()>>})
: this(input, null<grammar.delegators:{g|,<g.delegateName()>>}) {
}
public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>>})
: base(input, state) {
InitializeCyclicDFAs(); <!-- Necessary in C#??? Not removed yet. !>
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = new Hashtable[<numRules>+1];<n> <!-- index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
{g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>>}, this);}; separator="\n">
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
}

override public string GrammarFileName
{
get { return "<fileName>";}
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs()>)
{
<cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
separator="\n">
}

<cyclicDFAs:cyclicDFA()> <!-- dump tables for all DFA !>

}

```


>>

```
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override public IToken NextToken()
{
    while (true)
    {
        if ( input.LA(1) == (int)CharStreamConstants.EOF )
        {
            return Token.EOF_TOKEN;
        }

        state.token = null;
        state.channel = Token.DEFAULT_CHANNEL;
        state.tokenStartCharIndex = input.Index();
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;
        state.text = null;
        try
        {
            int m = input.Mark();
            state.backtracking = 1; <! means we won't throw slow exception !>
            state.failed = false;
            mTokens();
            state.backtracking = 0;
        }
        <!
        mTokens backtracks with synpred at backtracking==2
        and we set the synpredgate to allow actions at level 1.
        !>
        if ( state.failed )
        {
            input.Rewind(m);
            input.Consume(); <! // advance one char and try again !>
        }
        else
        {
            Emit();
            return state.token;
        }
    }
    catch (RecognitionException re)
```

```

    {
        // shouldn't happen in backtracking mode, but...
        ReportError(re);
        Recover(re);
    }
}
}

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( state.backtracking > 1 )
        base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if ( state.backtracking>1 )
        return base.AlreadyParsedRule(input, ruleIndex);
    return false;
}
>>

actionGate() ::= "(state.backtracking==0)"

filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
    public static readonly string[] tokenNames = new string[]
    {
        "\<invalid>",
        "\<EOR>",
        "\<DOWN>",
        "\<UP>",
        <tokenNames; separator=", \n">
    };<\n>
<endif>

    <tokens:{public const int <it.name> = <it.type>;}; separator="\n">

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">

```

```

// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g.delegateName()>; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

    public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}>)
    : this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.delegateName()>}>)) {
    }

    public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
    : base(input, state) {
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>}>, this);}; separator="\n">
            <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};
separator="\n">
            <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
        }
    <@end>

    override public string[] TokenNames {
    get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
    }

    override public string GrammarFileName {
    get { return "<fileName>"; }
    }

    <members>

    <rules; separator="\n\n">

    <! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
    // Delegated rules
    <grammar.delegatedRules:{ruleDescriptor|
    public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) //
throws RecognitionException
    \{
        <if(ruleDescriptor.hasReturnValue)>return
    <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut

```

```

es:{a|<a.name>}; separator=", ">;
  \}); separator="\n">

<synpreds:{p | <synpred(p)>>

  <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs(>)
{
  <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this<@debugAddition(>);}; separator="\n">
  <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
separator="\n">
}

<cyclicDFAs:cyclicDFA(>> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=it.bits)>
}
>>

parserCtorBody() ::= <<
<@initializeCyclicDFAs>InitializeCyclicDFAs();<@end>
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Hashtable[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName(> = <g:delegateName(>);}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="IToken", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary

```

```

* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
    <ruleLabelDefs()>
<if(trace)>
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
        <block>
    }
    finally
    {
        TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end "<ruleName>"
>>

synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>

synpred(name) ::= <<
public bool <name>()
{
    state.backtracking++;
    <@start()>
    int start = input.Mark();
    try
    {
        <name>_fragment(); // can never throw exception
    }
    catch (RecognitionException re)
    {
        Console.Error.WriteLine("impossible: "+re);
    }
    bool success = !state.failed;
    input.Rewind(start);
}
}

```

```

    <@stop()>
    state.backtracking--;
    state.failed = false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( (state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>) )
{
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.backtracking > 0 ) { state.failed = true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [1]
{
    <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>

```

```

try
{
    <ruleMemoization(name=ruleName)>
        <block>
            <ruleCleanUp()>
            <(ruleDescriptor.actions.after):execAction()>
        }
<if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
<else>
    catch (RecognitionException re)
    {
        ReportError(re);
        Recover(input,re);
    <@setErrorReturnValue()>
    }<\n>
<endif>
<endif>
<endif>
    finally
    {
        <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.Start = input.LT(1);<\n>
<else>

```

```

<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text> = null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {IList list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{I|<I|:ruleLabelDef(label=it)> <I|.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {IList list_<it.label.text> = null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>

```



```

<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking > 0 )
{
Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
}
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [2]
{
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;

```

```

int _channel = DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

```

```

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
  <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do
{
  int alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
    <alts:altSwitchCase()>
  }
}

```

```

default:
    if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
    <ruleBacktrackFailure()>
        EarlyExitException eee<decisionNumber> =
            new EarlyExitException(<decisionNumber>, input);
        <@earlyExitException()>
        throw eee<decisionNumber>;
    }
    cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
do
{
    int alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    default:
        goto loop<decisionNumber>;
    }
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/

```

```
optionalBlock ::= block
```

```
optionalBlockSingleAlt ::= block
```

```
/** A case in a switch that jumps to an alternative given the alternative  
 * number. A DFA predicts the alternative and then a simple switch  
 * does the jump to the code that actually matches that alternative.  
 */
```

```
altSwitchCase() ::= <<
```

```
case <i> :
```

```
  <@prealt(>
```

```
  <it>
```

```
  break;<\n>
```

```
>>
```

```
/** An alternative is just a list of elements; at outermost level */
```

```
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
```

```
// <fileName>:<description>
```

```
{
```

```
  <@declarations(>
```

```
  <elements:element(>
```

```
  <rew>
```

```
  <@cleanup(>
```

```
}
```

```
>>
```

```
/** What to emit when there is no rewrite. For auto build
```

```
 * mode, does nothing.
```

```
 */
```

```
noRewrite(rewriteBlockLevel, treeLevel) ::= ""
```

```
// E L E M E N T S
```

```
/** Dump the elements one per line */
```

```
element() ::= <<
```

```
<@prematch(>
```

```
<it.el><\n>
```

```
>>
```

```
/** match a token optionally with a label in front */
```

```
tokenRef(token,label,elementIndex,hetero) ::= <<
```

```
<if(label)><label>=<labelType><endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex  
>); <checkRuleBacktrackFailure(>
```

```
>>
```

```
/** ids+=ID */
```

```
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
```

```
<tokenRef(...)>
```

```

<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> == null) list_<label> = new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
    input.Consume();
    <postmatchCode>
<if(!LEXER)>
    state.errorRecovery = false;
<endif>
    <if(backtracking)>state.failed = false;<endif>
}
else
{
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
<if(LEXER)>

```

```

    Recover(mse);
    throw mse;
<else>
    throw mse;
    <! use following code to make it recover inline; remove throw mse;
    RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>

```

```
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
```

```
<wildcardChar(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
```

```
* and a return value or values. The 'rule' argument was the
```

```
* target rule name, but now is type Rule, whose toString is
```

```
* same: the rule name. Now though you can access full rule
```

```
* descriptor stuff.
```

```
*/
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```

```
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
```

```
<if(label)>
```

```
<label> = <if(scope)><scope.delegateName().<endif><rule.name>(<args; separator=",">);<n>
```

```
<else>
```

```
<if(scope)><scope.delegateName().<endif><rule.name>(<args; separator=",">);<n>
```

```
<endif>
```

```
state.followingStackPointer--;
```

```
<checkRuleBacktrackFailure()>
```

```
>>
```

```
/** ids+=1 */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRef(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** A lexer rule reference.
```

```
*
```

```
* The 'rule' argument was the target rule name, but now
```

```
* is type Rule, whose toString is same: the rule name.
```

```
* Now though you can access full rule descriptor stuff.
```

```
*/
```

```
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
```

```
<if(label)>
```

```
int <label>Start<elementIndex> = CharIndex;
```

```
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=",">);
```

```
<checkRuleBacktrackFailure()>
```

```
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
```

```
<label>Start<elementIndex>, CharIndex-1);
```

```
<else>
```

```
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=",">);
```

```
<checkRuleBacktrackFailure()>
```

```
<endif>
```

```
>>
```



```

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1) == Token.DOWN )
{
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> )
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

```

```

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
  <@noViableAltException()>
  throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
  alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>

```

```

<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>) <endif>)
{
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
    default:
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>;
        break;
    <else>
        <ruleBacktrackFailure()>
        NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
            new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
        <@noViableAltException()>
        throw nvae_d<decisionNumber>s<stateNumber>;<\n>
    <endif>
} <\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
} <\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

```

```

switch ( input.LA(<k>) )
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber> = <eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
    <targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables.
 */
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap="\n \>";
const string DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap="\n \>";
const string DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap="\n \>";
const string DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap="\n \>";
const string DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap="\n \>";
const string DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap="\n \>}>";
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|<s; wrap="\n \>"; separator=",\n">
};

```

```

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition =
DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
    <@debugMember(>
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
    {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;

    }
    <@dbgCtor(>

    override public string Description
    {
        get { return "<dfa.description>"; }
    }

    <@errorMethod(>
} <\n>
<if(dfa.specialStateSTs)>

protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)
//throws NoViableAltException
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>

```

```

    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
int _s = s;
switch ( s )
{
    <dfa.specialStateSTs:{state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">
    }
<if(backtracking)>
    if (state.backtracking > 0) {state.failed = true; return -1;}<\n>
<endif>
    NoViableAltException nvae<dfa.decisionNumber> =
        new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae<dfa.decisionNumber>);
    throw nvae<dfa.decisionNumber>;
}<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index();
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s >= 0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>) <endif>) { s = <targetStateNumber>; }<\n>
>>

```

```

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left> && <right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{o || <o>>}"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> \>= <lower> && LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) \>=
<lower> && input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" || \\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
  <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

```

```

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
  <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<

```



```

default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public class <ruleDescriptor.returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
{
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>

```

```

((<scope>_scope)<scope>_stack[<index>]).<attr.name> = <expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {function.size()>0 && function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"

```

```

tokenLabelPropertyRef_type(scope,attr) ::= "(<<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<<scope> != null) ? <scope>.TokenIndex : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<<scope> != null) ? ((<labelType>)<scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<<scope> != null) ? ((<labelType>)<scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<<scope> != null) ? ((<ASTLabelType>)<scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
((<scope> != null) ? input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
    input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)) : null)
<else>
((<scope> != null) ? input.ToString((IToken)<scope>.Start,(IToken)<scope>.Stop)) : null)
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "(<<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<<scope> != null) ? <scope>.Text : null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<<labelType>)retval.Start)"
rulePropertyRef_stop(scope,attr) ::= "(<<labelType>)retval.Stop)"
rulePropertyRef_tree(scope,attr) ::= "(<<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start) )
<else>
input.ToString((IToken)retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64: { <it>UL }; separator="," > }); <n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg
No license file was found, but licenses were detected in source scan.

```

/*

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*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

/** Add an adaptor property that knows how to build trees */

```
parserMembers() ::= <<
<!protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n!>
setTreeAdaptor: function(adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates: {g|<g.delegateName()>.setTreeAdaptor(this.adaptor);}>
},
getTreeAdaptor: function() {
    return this.adaptor;
},
```

```

>>

@returnScope.ruleReturnMembers() ::= <<
getTree: function() { return this.tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{ var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{ var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");};
separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = this.adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*

```

```

* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

// R e w r i t e

```

```

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<n>
<endif>
<prevRuleRootRef(>).tree = root_0;
<rewriteCodeLabels(>
root_0 = this.adaptor.nil();
<alts:rewriteAlt(>; separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>).tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>).tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>).tree = root_0;
<endif>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

```



```

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>)};
  separator="\n"
>
<referencedTokenListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>",<it>");};
  separator="\n"
>
<referencedRuleLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null)};
  separator="\n"
>
<referencedRuleListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",<it>);};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>

```

```

}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewritePositiveClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
    throw new org.antlr.runtime.tree.RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
    <a.alt>
}<\n>
<else>
{
    <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel> = this.adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<

```

```

<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the

```

```

* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
this.adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>

```

>>

```
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken())<if(args)>, <args; separator=", "><endif>
<else>
<if(args)> <! must create new node from old !>
this.adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/JavaScript/AST.stg
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2005-2006 Terence Parr
```

```
All rights reserved.
```

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```
*/
```

```
group Cpp implements ANTLRCore;
```

```

cppTypeInitMap ::= [
  "int":"0",
  "long":"0",
  "float":"0.0",
  "double":"0.0",
  "bool":"false",
  "byte":"0",
  "short":"0",
  "char":"0",
  default:"0" // anything other than an atomic type
]

// What we generate lexer/parser/treeparser, used a suffix in a few places
generatedType() ::= <<
<if(LEXER)>Lexer<endif><if(PARSER)>Parser<endif><if(TREE_PARSER)>TreeParser<endif>
>>

leadIn(type) ::=
<<
/** \file
 *
 * This <type> file was generated by ANTLR version <ANTLRVersion>
 *
 * - From the grammar source file : <fileName>
 * -           On : <generatedTimestamp>
<if(LEXER)>
 * -           for the lexer : <name><\n>
<endif>
<if(PARSER)>
 * -           for the parser : <name><\n>
<endif>
<if(TREE_PARSER)>
 * -           for the tree parser : <name><\n>
<endif>
 *
 * Edit at your own peril.
 */
>>

standardHeaders() ::=
<<
#include \<antlr3/<generatedType(>).h>

<if(profile)>
#warning "No profiling support.."
<endif>
<if(TREE_PARSER)>
#warning "No tree parsing yet..."

```

```

<endif>
>>

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass) ::=
<<
<leadIn("C++ source")>
<@includes>
#include "<name><headerFileExtension()>"
<@end>
<if(actions.(actionScope).header)>
// Header action start =====
<actions.(actionScope).header>
// Header action end =====
<endif>

<headerAction>

<standardHeaders()>

<docComment>
<recognizer>
>>
parserHeaderFile() ::= <<
>>
treeParserHeaderFile() ::= <<
>>
lexerHeaderFile() ::= <<
template<typename StreamType, typename TokenType, typename TokenBuilder>
class <name> : public antlr3::Lexer<StreamType,TokenType,TokenBuilder> {
// carry over general types
typedef typename StreamType::position_type position_type;
typedef typename StreamType::char_type char_type;

typedef antlr3::tokenid_type      tokenid_type;
typedef antlr3::channel_type      channel_type;
typedef antlr3::decision_type     decision_type;
// exception shorthands
typedef antlr3::MismatchException<position_type,char_type> MismatchException;
typedef antlr3::MismatchedRangeException<position_type,char_type> MismatchedRangeException;

```

```

typedef antlr3::MismatchedSetException\<position_type,char_type> MismatchedSetException;
typedef antlr3::EarlyExitException\<position_type> EarlyExitException;
typedef antlr3::NoViableAltException\<position_type> NoViableAltException;
<if(backtracking)>
// @TODO backtracking ruleMemo = new HashMap[\<numRules>+1];\<n> \<! index from 1..n !>
<endif>

public:
<tokens:{static const tokenid_type <tokenPrefix()><it.name> = <it.type>;}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

<name>(StreamType* input)
: antlr3::Lexer\<StreamType,TokenType,TokenBuilder>(input)
{
}

<!if(filterMode)!>
<!filteringNextToken()!>
<endif!>
<rules; separator="\n\n">

// syn preds
<synpreds:{p | <lexerSynpred(p)>}>

// cyclic dfa's
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
// dfa tables..
}; // class <name>\<n>
>>

headerFile( LEXER,
           PARSER,
           TREE_PARSER,
           actionScope,
           actions,
           docComment,
           recognizer,
           name,
           tokens,
           tokenNames,
           rules,
           cyclicDFAs,
           bitsets,
           buildTemplate,
           profile,
           backtracking,

```



```

        synpreds,
        memoize,
        numRules,
        fileName,
        ANTLRVersion,
        generatedTimestamp,
        trace,
        scopes,
        superClass
    ) ::=
<<
#ifndef _<name>_H
#define _<name>_H
<leadIn("C++ header")>
<actions.(actionScope).headerfile>

<@includes>
<standardHeaders()>
<@end>

<if(LEXER)>
<lexerHeaderFile()>
<endif>
<if(PARSER)>
<parserHeaderFile()>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile()>
<endif>

#endif // _<name>_H<\n>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode) ::= <<

<cyclicDFAs:cyclicDFA()> <!-- dump tables for all DFA !>

>>

filteringNextToken() ::= <<
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */

```

```

public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        this->token = 0;
        tokenStartCharIndex = getCharIndex();
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !>
            failed=false;
            mTokens();
            backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            }
            else {
                return token;
            }
        }
        catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}

public void memoize(IntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( backtracking > 1 )
        super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex)
{
    if ( backtracking > 1 )
        return super.alreadyParsedRule(input, ruleIndex);
    return false;
}
>>

filteringActionGate() ::= "backtracking == 1"

/** How to generate a parser */

```

```

genericParser(
  grammar, name, scopes, tokens, tokenNames, rules, numRules, cyclicDFAs,
  bitsets, inputStreamType, superClass, ASTLabelType="Object",
  labelType, members, filterMode
) ::= <<
// genericParser
class <name> : public <@superClassName><superClass><@end> {
public:
  static const char* tokenNames[] = {
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
  };
  <tokens:{ static tokenid_type <tokenPrefix()><it.name>=<it.type>;}; separator="\n">
  <scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>
  <@members>

  <name>(StreamType* input)
  : <superClass><StreamType,TokenType>(input)
  {
  <if(backtracking)>
    ruleMemo = new HashMap[<numRules>+1];<\n> <! index from 1..n !>
  <endif>
  }
  <@end>

  //@TODO public String[] getTokenNames() { return tokenNames; }
  //@TODO public String getGrammarFileName() { return "<fileName>"; }
  <members>

  <rules; separator="\n\n">

  <synpreds:{ p | <synpred(p)>}>

  <cyclicDFAs:{ dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
  DFA<dfa.decisionNumber>(this);}; separator="\n">
  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

  <bitsets:bitset(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>
  };
  >>

  parser(
    grammar, name, scopes, tokens, tokenNames,
    rules, numRules, bitsets, ASTLabelType,
    superClass="Parser", labelType="Token",
    members={ <actions.parser.members>}) ::= <<
  <genericParser(inputStreamType="TokenStream", ...)>
  >>

```

```

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction,
rules, numRules,
bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass="TreeParser", members={<actions.treeparser.members>}, filterMode
) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
<if(trace)>System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+"
backtracking="+backtracking);<endif>
<if(trace)>
try {
<block>
}
finally {
System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
}
<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public boolean <name>() {
this->backtracking++;
<@start>
int start = input.mark();
try {
<name>_fragment(); // can never throw exception

```

```

    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = ! this->failed;
    input.rewind(start);
    <@stop()>
    this->backtracking--;
    this->failed = false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( backtracking > 0 && alreadyParsedRule(input, <ruleDescriptor.index> )
    return <ruleReturnValue()>;
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if (failed)
    return <ruleReturnValue()>;
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (backtracking > 0)
{
    failed = true;
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

```

```

// $ANTLR start <ruleName>
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)
{
<if(trace)>
    antlr3::Tracer trace(this,"<ruleName>");
    System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
<endif>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    try {
        <ruleMemoization(name=ruleName)>
        <block>
    }
    <if(exceptions)>
        <exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
    <else>
        <if(!emptyRule)>
        <if(actions.(actionScope).rulecatch)>
            <actions.(actionScope).rulecatch>
        <else>
            catch (RecognitionException re) {
                reportError(re);
                recover(input,re);
            }<\n>
        <endif>
        <endif>
        <endif>
        finally {
            <if(trace)>System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+"
backtracking="+backtracking);<endif>
            <ruleCleanUp()>
            <(ruleDescriptor.actions.finally):execAction()>
        }
        <@postamble()>
        return <ruleReturnValue()>;
    }
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}

```

>>

```
ruleDeclarations() ::= <<
<ruleDescriptor.useScopes: { <it>_stack.push(new <it>_scope()); }; separator="\n">
<ruleDescriptor.ruleScope: { <it.name>_stack.push(new <it.name>_scope()); }; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>
```

```
ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: { <labelType> <it.label.text>=null; }; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: { List list_<it.label.text>=null; }; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
<[ruleDescriptor.allRuleRefsInAltsWithRewrites,ruleDescriptor.allTokenRefsInAltsWithRewrites]
: { List list_<it>=new ArrayList(); }; separator="\n"
>
>>
```

```
ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>
```

```
ruleCleanup() ::= <<
<ruleDescriptor.useScopes: { <it>_stack.pop(); }; separator="\n">
<ruleDescriptor.ruleScope: { <it.name>_stack.pop(); }; separator="\n">
```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.stop = input.LT(-1);<\n>
<endif>
<if(memoize)>
<if(backtracking)>
if ( backtracking > 0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)
{
<if(trace)>
antlr3::Tracer trace(this,"<ruleName>");
<endif>
antlr3::CountScope nestingTracker(this->ruleNestingLevel);
StreamType& input(this->getInput());
<if(nakedBlock)>
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
<block><\n>
<else>
tokenid_type type = <tokenPrefix()><ruleName>;
channel_type channel = antlr3::Token::DEFAULT_CHANNEL;
position_type start(input.getPosition());
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
<block>
<! create token if none exists *and* we are an outermost token rule !>
<execAction({if ( this->token == 0 && this->ruleNestingLevel == 1 ) {
TokenType *tt = TokenBuilder::build(type,start,input,channel);
std::cout << (*tt) << std::endl;
this->emit(tt);
}<\n>
})>
<endif>
}
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<

```



```

void mTokens() throw(antlr3::BaseRecognitionException)
{
    StreamType& input(this->getInput());
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,
    maxK,maxAlt,description) ::= <<
// block <fileName>:<description>
decision_type alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// ruleBlock <fileName>:<description>
decision_type alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// ruleBlockSingleAlt <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

```

```

// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// positiveClosureBlock <fileName>:<description>
decision_type cnt<decisionNumber>=0;
<decls>
<@preloop()>
do {
    decision_type alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    default :
        if ( cnt<decisionNumber> >= 1 )
            goto loop<decisionNumber>;
            EarlyExitException eee( input.getPosition(), <decisionNumber> );
            <@earlyExitException()>
            throw eee;
    }
    cnt<decisionNumber>++;
} while (true);
loop<decisionNumber>: ;
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// closureBlock <fileName>:<description>
<decls>
<@preloop()>
do {
    decision_type alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {

```

```

<alts:altSwitchCase(>
default :
  goto loop<decisionNumber>;
}
} while (true);
loop<decisionNumber>; ;
<@postloop(>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
  <@prealt(>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt) ::= <<
// alt <fileName>:<description>
{
  <@declarations(>
  <elements:element(>
  <@cleanup(>
}
>>

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
// element <fileName>:<description>
<@prematch(>
<it.el><\n>
>>

```

```

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex) ::= <<
// tokenRef
<if(label)>
<label> = input.LT(1);<\n>
<endif>
this->match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID no AST building */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(...)>
>>

listLabel(label) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<label>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
// charRef
<if(label)>
<tokenid_type()> <label> = input.LA(1);<\n>
<endif>
this->match(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b) ::= "this->matchRange(<a>,<b>); <checkRuleBacktrackFailure()>"

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
// matchSet
<if(label)>
<label> = input.LT(1);<\n>
<endif>
if ( <s> )
{
<postmatchCode>
input.consume();
<if(!LEXER)>
errorRecovery=false;
<endif>
<if(backtracking)>failed=false;<endif>

```

```

}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse(input.getPosition(),input.LA(1));
<@mismatchedSetException()>
<if(LEXER)>
this->recover(mse);
<else>
this->recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
throw mse;
}<\n>
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
// lexerStringRef
<if(label)>
position_type <label>Start(input.getPosition());
this->match( <string> );
<checkRuleBacktrackFailure()>
TokenType* <label> =
TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
this->match( <string> );
<checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = input.LT(1);<\n>
<endif>
this->matchAny( input );
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

```

```

/** Match . wildcard */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<tokenid_type()> <label> = input.LA(1);<\n>
<endif>
this->matchAny();
<checkRuleBacktrackFailure()>
>>

tokenid_type() ::= "<if(LEXER)>char_type<else>tokenid_type<endif>"

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args) ::= <<
following.push(FOLLOW_<rule>_in_<ruleName><elementIndex>);
<if(label)>
<label>=<rule>(<args>);<\n>
<else>
<rule>(<args>);<\n>
<endif>
following.pop();
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args) ::= <<
<if(label)>
position_type <label>Start(input.getPosition());
m<rule>(<args>);
<checkRuleBacktrackFailure()>
TokenType* <label> =
TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
m<rule>(<args>);
<checkRuleBacktrackFailure()>
<endif>

```

```

>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
<if(label)>
position_type <label>Start(input.getPosition());
match(EOF);
<checkRuleBacktrackFailure()>
TokenType* <label> = TokenBuilder::build(Token.EOF,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
match(EOF);
<checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, children, nullableChildList) ::= <<
<root:element()>
<if(nullableChildList)>
if ( input.LA(1)==antlr3::Token::DOWN ) {
    match(input, antlr3::Token::DOWN, null);
    <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, antlr3::Token::UP, null);
    <checkRuleBacktrackFailure()>
}
<else>
match(input, antlr3::Token::DOWN, null);
<checkRuleBacktrackFailure()>
<children:element()>
match(input, antlr3::Token::UP, null);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>

```

```

<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<endif>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;<\n>
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);<\n>
<@noViableAltException()>
throw nvae;<\n>
<endif>
}
>>

```

```

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse ">
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */

```



```
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>";
```

```
/** A simple edge with an expression. If the expression is satisfied,  
 * enter to the target state. To handle gated productions, we may  
 * have to evaluate some predicates for this edge.  
 */
```

```
dfaEdge(labelExpr, targetState, predicates) ::= <<  
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> )  
{  
  <targetState>  
}  
>>
```

```
// F i x e d D F A (switch case)
```

```
/** A DFA state where a SWITCH may be generated. The code generator  
 * decides if this is possible: CodeGenerator.canGenerateSwitch().  
 */
```

```
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<  
switch ( input.LA(<k>)) {  
  <edges; separator="\n">  
  default:  
  <if(eotPredictsAlt)>  
    alt<decisionNumber> = <eotPredictsAlt>;  
  <else>  
    NoViableAltException nvae( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );<\n>  
    <@noViableAltException()>  
    throw nvae;<\n>  
  <endif>  
}<\n>  
>>
```

```
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<  
switch ( input.LA(<k>)) {  
  <edges; separator="\n">  
}<\n>  
>>
```

```
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<  
switch ( input.LA(<k>)) {  
  <edges; separator="\n"><\n>  
  <if(eotPredictsAlt)>  
  default:  
    alt<decisionNumber> = <eotPredictsAlt>;  
    break;<\n>  
  <endif>  
}<\n>  
>>
```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n"> {
  <targetState>
} break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
// dfaDecision
alt<decisionNumber> = predictDFA<decisionNumber>(input);
>>

/** The overall cyclic DFA chunk; contains all the DFA states */
cyclicDFA(dfa) ::= <<
/* cyclicDFA=<dfa>
*/
// cyclic = <dfa.cyclic>
// numstates = <dfa.numberOfStates>

// startState = <dfa.startState>
// startState.numberOfTransitions = <dfa.startState.NumberOfTransitions>
// startState.lookaheadDepth = <dfa.startState.LookaheadDepth>

const static short <name>dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] = {
  <dfa.eot; wrap="\n  ", separator=",", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] = {
  <dfa.eof; wrap="\n  ", separator=",", null="-1">
};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = {
  <dfa.min; wrap="\n  ", separator=",", null="0">
};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] = {
  <dfa.max; wrap="\n  ", separator=",", null="0">
};
const static short <name>dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] = {
  <dfa.accept; wrap="\n  ", separator=",", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] = {
  <dfa.special; wrap="\n  ", separator=",", null="-1">
};
<dfa.edgeTransitionClassMap.keys:{ table |

```

```

const static short <name>dfa<dfa.decisionNumber>_transition<i0>[] = {
    <table; separator=" ", wrap="\n ", null="-1">
};
}; null="">
const static short <name>dfa<dfa.decisionNumber>_transition[] = {
    <dfa.transitionEdgeTables: { whichTable|<name>dfa<dfa.decisionNumber>_transition<whichTable>, };
separator="\n", null="0 /* fixme? */">
};
<! add attribute for the DFA !>
DFA\<char_type> dfa<dfa.decisionNumber>;
<! this should go in the initializer of the thing
- (id) init
{
if ((self = [super init]) != nil) {
    eot = <name>dfa<dfa.decisionNumber>_eot;
    eof = <name>dfa<dfa.decisionNumber>_eof;
    min = <name>dfa<dfa.decisionNumber>_min;
    max = <name>dfa<dfa.decisionNumber>_max;
    accept = <name>dfa<dfa.decisionNumber>_accept;
    special = <name>dfa<dfa.decisionNumber>_special;
    if (!(transition = calloc(<dfa.numberofStates>, sizeof(void*))) {
        [self release];
        return nil;
    }
    <dfa.transitionEdgeTables: { whichTable|transition[<i0>] =
<name>dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null="">
}
return self;
}
!>

<if(dfa.specialStateSTs)>
int specialStateTransition( int state )
{
    int s = state;
    switch ( s ) {
        <dfa.specialStateSTs: { state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
        <state>;}; separator="\n">
    }
}
<if(backtracking)>
if ( recognizer.isBacktracking() ) {
    recognizer.setFailed();
    return -1;
}<\n>
<endif>
noViableAlt(s, input);
}<\n>

```

```

<endif>

<\n>

// <dfa.description>
decision_type predictDFA<dfa.decisionNumber>( StreamType& input )
{
/* mark current location (rewind automatically when the rewinder goes
 * out of scope */
antlr3::Rewinder<position_type> markPoint(input.getPosition());
goto s0; // goto start...
// ...
throw NoViableAltException( input.getPosition(), "<dfa.description>", <dfa.decisionNumber>, 0 /* fixme */ );<\n>
}<\n>
>>

/** A state in a cyclic DFA */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
// cyclicDFAState
s<stateNumber>: {
<if(semPredState)>
input.rewind();<\n>
<else>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(1);
<endif>
<edges>
<if(needErrorClause)>
throw NoViableAltException( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );<\n>
<endif><\n>
}<\n>
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
// cyclicDFAEdge
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> )
{
input.consume();
goto s<targetStateNumber>;
}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */

```

```

eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= "goto s<targetStateNumber>;"

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left> && <right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{o | ||<o>}>"

notPredicate(pred) ::= "!<pred>"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)===<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>))\>=<lower>
&& input.LA(<k>)\<=<upper>"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name> {
  <scope.attributes:{<it.decl>;}; separator=\\\"\\\">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
  <scope.attributes:{<it.decl>;}; separator=\\\"\\\">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>

```

```
>>
```

```
returnType() ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
<ruleDescriptor.name>_return  
<else>  
<if(ruleDescriptor.singleValueReturnType)>  
<ruleDescriptor.singleValueReturnType>  
<else>  
void  
<endif>  
<endif>  
>>
```

```
ruleLabelType(referencedRule) ::= <<  
<if(referencedRule.hasMultipleReturnValues)>  
<referencedRule.name>_return  
<else>  
<if(referencedRule.singleValueReturnType)>  
<referencedRule.singleValueReturnType>  
<else>  
void  
<endif>  
<endif>  
>>
```

```
/** Using a type to init value map, try to init a type; if not in table  
* must be an object, default value is "null".
```

```
*/
```

```
initValue(typeName) ::= <<  
<javaTypeInitMap.(typeName)>  
>>
```

```
ruleLabelDef(label) ::= <<  
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =  
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>  
>>
```

```
returnScope(scope) ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
public static class <returnType()> {  
    <labelType> start, stop;  
<if(buildAST)>  
    <ASTLabelType> tree;  
<else>  
<if(buildTemplate)>  
    StringTemplate st;  
<endif>
```

```

<endif>
  <scope.attributes:{<it.decl>; separator="\n">
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>; separator=", ">
>>

/** Used in codegen.g to translate $x.y references.
 * I could have left actions as StringTemplates to be inserted in
 * the output (so they could use attributes inherited from surrounding
 * templates), but really wanted to pass in AttributeScope and Attribute
 * objects so this translation could query them. So, translation of
 * $x.y to executable code occurs before recognizerST.toString() occurs.
 * I.e., actions are just text strings during final code generation.
 */
globalAttributeRef(scope,attr) ::= <<
((<scope>><scope>_stack.peek()).<attr.name>
>>

parameterAttributeRef(attr) ::= "<attr.name>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.singleValueReturnType)>
<scope>
<else>
<scope>.<attr.name>

```

```

<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.singleValueReturnType)>
<attr.name>
<else>
retval.<attr.name>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"

```



```
rulePropertyRef_text(scope,attr) ::= "input.toString(retval.start,input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"
```

```
// A C T I O N S
```

```
emit(type) ::= "emit(<type>);"
```

```
setType(type) ::= "setType(<type>);"
```

```
/** How to execute an action */
```

```
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
if ( backtracking == 0 )
{
<action>
}
<endif>
<else>
<action>
<endif>
>>
```

```
// M I S C (properties, etc...)
```

```
bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[] { <it>L }; separator=", ">); <\n>
>>
```

```
tokenPrefix() ::= "TOK_"
codeFileExtension() ::= ".cpp"
// used in CPPTarget.java to generate the headerfile extension
headerFileExtension() ::= ".h"
```

```
true() ::= "true"
false() ::= "false"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Cpp/Cpp.stg
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
[The "BSD licence"]
```

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```
*/
```

```
/** Template subgroup to add template rewrite output
```

```
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

```
group ST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
using Antlr.StringTemplate;
```

```
using Antlr.StringTemplate.Language;
```

```
<if(!backtracking)>
```

```
using Hashtable = System.Collections.Hashtable;
```

```
<endif>
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
private StringTemplate st;
```

```
public StringTemplate ST { get { return st; } set { st = value; } }
```

```
public override object Template { get { return st; } }
```

```
public override string ToString() { return (st == null) ? null : st.ToString(); }
```

```

>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib =
    new StringTemplateGroup("<name>Templates", typeof(AngleBracketTemplateLexer));

public StringTemplateGroup TemplateLib
{
    get { return this.templateLib; }
    set { this.templateLib = value; }
}

/// \<summary> Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...).Add(...)"
/// \</summary>
protected class STAttrMap : Hashtable
{
    public STAttrMap Add(string attrName, object value)
    {
        base.Add(attrName, value);
        return this;
    }
    public STAttrMap Add(string attrName, int value)
    {
        base.Add(attrName, value);
        return this;
    }
}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Template",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">

```

```
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>
```

```
replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.ST);
<else>
((TokenRewriteStream)input).Replace(
((IToken)retval.Start).TokenIndex,
input.LT(-1).TokenIndex,
retval.ST);
<endif>
>>
```

```
rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>) {
    retval.ST = <it.alt>;
}<\n>
<else>
{
    retval.ST = <it.alt>;
}<\n>
<endif>
>>
```

```
rewriteEmptyTemplate(alts) ::= <<
null;
>>
```

```
/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template after having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
```

```
rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>
```

```
/** expr is a string expression that says what template to load */
```

```

rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp2/ST.stg
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp/ST.stg

```

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/*

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*/

group Ruby implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules

* and cyclic DFAs plus support code.

*/

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer, name, tokens, tokenNames, rules,
           cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=
```

<<

<name> (<fileName>)

Generated by ANTLR <ANTLRVersion> on <generatedTimestamp>

<docComment>

<recognizer>

>>

/**

* Inherits parameters from outputFile(...)

*

* labelType is not used for Ruby (no explicit type declarations)

*/

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType, filterMode,
       superClass) ::=
```

<<

class <name>

require 'stringio'

<tokens: {<it.name>=<it.type>}; separator="\n">

def initialize(input)

```

input = StringIO.new(input) if input.respond_to?(:to_str)
@input = CharStream.new(input)
@backtracking = 0
@failed = false

<actions.lexer.init>
end

def next_token
  # TODO: catch exceptions
  @token = nil
  @channel = nil
  @text = nil

  @start = @input.index
  @line = @input.line
  @pos = @input.column

  @type = nil
  @type_int = nil

  return :EOF if <LA(1)> == :EOF

  match_Tokens()

  if @token == nil
    @text ||= @input.substring(@start, @input.index - 1)
    @token = Token.new(@type, @type_int, @line, @pos, @text, @channel)
  end

  <if(trace)>
  puts @token.inspect
  <endif>
  return @token
end

class Token
  attr_reader :token_type
  attr_reader :int_type
  attr_reader :line
  attr_reader :pos
  attr_reader :text
  attr_reader :channel

  def initialize(token_type, int_type, line, pos, text, channel = nil)
    @token_type = token_type
    @int_type = int_type
    @line = line

```

```

    @pos = pos
    @text = text
    @channel = channel
end

alias :to_i :int_type
end

<actions.lexer.members>

private

class CharStream
  attr_reader :line
  attr_reader :column
  attr_reader :index

  def initialize(input)
    @buffer = ""
    @input = input
    @line = 1
    @column = 0

    @index = 0;
  end

  # returns a Fixnum between 0 and 0xFFFF or :EOF
  def look_ahead(pos)
    offset = @index + pos - 1
    if @buffer.length < offset + 1
      char = @input.read(offset + 1 - @buffer.length)
      @buffer <<< char if not char.nil?
    end

    if offset < @buffer.length
      @buffer[offset]
    else
      :EOF
    end
  end

  def mark
    @state = { :index => @index, :line => @line, :column => @column }
    return 0
  end

  def rewind(marker)
    @index = @state[:index]
  end
end

```



```

    @line = @state[:line]
    @column = @state[:column]
end

def consume
  look_ahead(1) # force a read from the input if necessary
  @column = @column + 1
  if @buffer[@index] == ?\n
    @line = @line + 1
    @column = 0
  end
  @index = @index + 1
end

def substring(start, stop)
  @buffer.slice(start, stop - start + 1)
end

def match(value = nil)
  @failed = false
  case
  when value.nil?
    @input.consume()
  when value.respond_to?(:to_str)
    catch(:done) do
      value.each_byte do |c|
        @failed ||= !(<isolatedLookaheadTest(atom="c", k=1)>)
        @input.consume() if !@failed
        throw :done if @failed
      end
    end
  else
    @failed = !(<isolatedLookaheadTest(atom="value", k=1)>)
    @input.consume() if !@failed
  end
end

if @failed && @backtracking \<= 0
  raise "Expected #{value.respond_to?(:chr) ? value.chr : value}"
end

def match_range(from, to)
  char = <LA(1)>

  if char != :EOF && (char \>= from || char \<= to)
    @failed = false
  end
end

```

```

match()
  elsif @backtracking > 0
    @failed = true
  else
    raise "Expected [#{from.chr}..#{to.chr}]"
  end
end

<rules; separator="\n\n">

<synpreds: synpred(); separator="\n\n">

<dfaClass()>
  <cyclicDFAs: cyclicDFA()>
end
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, ASTLabelType, superClass,
  labelType, members) ::=
<<
require '<grammar.name>Lexer'

class <name>
  attr_reader :lexer

  TOKENS = [
    <tokenNames: {[<it>, <i>]}; separator=",\n">
  ].inject({}) { |hash, pair|
    name = pair[0]
    index = pair[1] + 3 # hardcoded for now... no way to get this value from ANTLR

    if name[0] == '?'
      hash["T#{index}"] = index
    else
      hash["#{name}"] = index
    end

    hash
  }

  TOKENS[:EOF] = -1

  def initialize(input)
    if input.respond_to?(:to_str) || input.respond_to?(:read)
      input = <grammar.name>Lexer.new(input)
    end
  end
end

```

```

@lexer = input
  @input = TokenStream.new(input)
  @backtracking = 0
  @failed = false

  <actions.parser.init>

  <if(trace)>
    @indent = 0
  <endif>
end

<rules; separator="\n\n">

<actions.parser.members>

private

class TokenStream
  attr_reader :index

  def initialize(input)
    @buffer = []
    @input = input
    @channel = nil

    @index = 0;
  end

  # returns a Token
  def look_ahead(pos)
    offset = @index + pos - 1

    while @buffer[-1] != :EOF && @buffer.length < offset + 1
      token = @input.next_token
      if token == :EOF || token.channel == @channel
        @buffer <<< token
      end
    end

    offset = -1 if offset >= @buffer.length
    if offset < @buffer.length
      @buffer[offset]
    end
  end

  def mark
    @state = { :index => @index }
  end
end

```

```

    return 0
end

def rewind(marker)
  @index = @state[:index]
end

def consume
  look_ahead(1) # force a read from the input if necessary
  @index = @index + 1
end

def match(token = nil)
  if token.nil? || <LA(1)> == token
    @input.consume
    @failed = false
    return
  elsif @backtracking > 0
    @failed = true
  else
    raise "Expected #{token}"
  end
end

def look_ahead(k)
  token = @input.look_ahead(k)
  if token != :EOF
    token = token.token_type
  end

  token
end

<synpreds: synpred(); separator="\n\n">

<dfaClass()>
  <cyclicDFAs: cyclicDFA()>
end
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
  numRules, bitsets, labelType, ASTLabelType,
  superClass, members) ::=
<<

```

```

raise "treeParser not implemented"
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# <description>
def <ruleName>_fragment
  <block>
end
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::=
<<
# <description>
def <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  <ruleDescriptor.returnScope.attributes:
  { _retval_<it.name> = nil }; separator = "\n"
  >
  <ruleLabelDefs()>

  <if(trace)>
    puts " " * @indent + "+<ruleName>"
    @indent += 1
  <endif>

  <ruleDescriptor.actions.init>

  <block>

  <if(trace)>
    @indent -= 1
    puts " " * @indent + "-<ruleName>"
  <endif>

  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasMultipleReturnValues)>

```

```

    return {<ruleDescriptor.returnScope.attributes:{ a | :<a.name> => _retval_<a.name> }; separator = ", ">}
    # TODO: need "Attribute.index" for this to work: return <ruleDescriptor.returnScope.attributes:{ a |
    _retval_<a.name> }; separator = ", ">
    <else>
    return _retval_<ruleDescriptor.singleValueReturnName>
    <endif>
    <endif>
    <endif>
end
>>

```

```

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels :{ _<it.label.text> = nil }; separator="\n">
<[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = nil }; separator="\n"
>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */

```

```

lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::=
<<
def match_<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<ruleDescriptor.actions.init>

<lexerRuleLabelDefs()>
<if(nakedBlock)>
<block><\n>
<else>
@type = :<ruleName>
@type_int = <ruleName>
<block>
<endif>
end
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels, ruleDescriptor.ruleLabels]
: {<it.label.text> = nil }; separator="\n"
>
<ruleDescriptor.charLabels: {<it.label.text> = nil }; separator="\n">
<[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = nil }; separator="\n"
>
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::=
<<
<lexerRule(...)>
>>

filteringNextToken() ::=
<<
  raise "filteringNextToken not implemented"
>>

filteringActionGate() ::=
<<
  raise "filteringActionGate not implemented"
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<switchBlock(...)>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<switchBlock(...)>
>>

/**
 * decision, decisionNumber don't seem to be relevant in this template
 * alts actually has a single element
 */
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::=
<<
<plainBlock(...)>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::=
<<
<plainBlock(...)>

```

>>

/** A (..)+ block with 0 or more alternatives */

positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

<description>

matchedOnce<decisionNumber> = false

<decls>

while true

 alt<decisionNumber> = <maxAlt>

 <decision>

 case alt<decisionNumber>

 <alts:switchCase(); separator="\n">

 else

 break

 end

 matchedOnce<decisionNumber> = true

end

if !matchedOnce<decisionNumber>

 raise "Expected at least one match: <description>"

end

>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

<description>

<decls>

while true

 alt<decisionNumber> = <maxAlt>

 <decision>

 case alt<decisionNumber>

 <alts:switchCase(); separator="\n">

 else

 break

 end

end

>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation

* so we can just use the normal block template


```

*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::=
<<
# <description>
<elements: element(); separator="\n">
>>

// E L E M E N T S

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::=
<<
<if(label)>
_<label> = @input.look_ahead(1)<\n>
<endif>
match(<token>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::=
<<
<tokenRef(...)>
<listLabel(elem=label, ...)>
>>

listLabel(label,elem)::=
<<
list_<label> ||= []
list_<label> \<< _<elem>
>>

/** match a character */
charRef(char,label)::=
<<
<if(label)>
_<label> = <char><\n>
<endif>
match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label)::=

```

```

<<
<if(label)>
_<label> = <LA(1)><\n>
<endif>
match_range(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode)::=
<<
<if(label)>
_<label> = <LA(1)><\n>
<endif>
if <s>
    match()
    <postmatchCode>
else
    raise "Expected set"
end
end
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode)::=
<<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label)::=
<<
<if(label)>
_<label> = <string><\n>
<endif>
match(<string>)<\n>
>>

wildcard(label, elementIndex)::=
<<
<if(label)>
_<label> = <LA(1)><\n>
<endif>
match()
>>

wildcardAndListLabel(label,elementIndex)::=
<<
<wildcard(...)>

```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match . wildcard in lexer */
```

```
wildcardChar(label, elementIndex)::=
```

```
<<
```

```
<if(label)>
```

```
_<label> = <LA(1)><\n>
```

```
<endif>
```

```
match()
```

```
>>
```

```
wildcardCharListLabel(label, elementIndex)::=
```

```
<<
```

```
raise "wildcardCharListLabel not implemented"
```

```
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
```

```
* and a return value or values.
```

```
*/
```

```
ruleRef(rule,label,elementIndex,args,scope) ::=
```

```
<<
```

```
<if(label)>
```

```
_<label> = <rule>(<args; separator=" ">)<\n>
```

```
<else>
```

```
<rule>(<args; separator=" ">)<\n>
```

```
<endif>
```

```
>>
```

```
/** ids+=ID */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::=
```

```
<<
```

```
<ruleRef(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/**
```

```
A: b=B;
```

```
B: .;
```

TODO: Should we use a real token type instead of :invalid? How do we get it?

```
*/
```

```
lexerRuleRef(rule,label,args,elementIndex,scope)::=
```

```
<<
```

```

<if(label)>
  _<label>_start_<elementIndex> = @input.index
  _<label>_line_<elementIndex> = @input.line
  _<label>_pos_<elementIndex> = @input.column
  match_<rule>(<args; separator=", ">)
  _<label> = Token.new(:invalid, 0,
    _<label>_line_<elementIndex>,
    _<label>_pos_<elementIndex>,
    @input.substring(_<label>_start_<elementIndex>, @input.index - 1), nil)
<else>
  match_<rule>(<args; separator=", ">)
<endif>
>>

```

```

lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::=

```

```

<<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** EOF in the lexer */

```

```

lexerMatchEOF(label,elementIndex)::=

```

```

<<
<if(label)>
  _<label> = :EOF<\n>
<endif>
match(:EOF)
>>

```

```

/** match ^(root children) in tree parser */

```

```

tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel,
  treeLevel) ::=

```

```

<<
  raise "tree not implemented"
>>

```

```

/** Every predicate is used as a validating predicate (even when it is

```

```

 * also hoisted into a prediction expression).

```

```

*/

```

```

validateSemanticPredicate(pred,description)::=

```

```

<<
# <description>
if !<evalPredicate(...)>
  raise "Semantic predicate failed: #{<description>}"
end
>>

```

```

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
else
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt><\n>
<else>
  raise "Expected: <description>"<\n>
<endif>
end
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 *
 * If a semPredState, don't force lookahead lookup; preds might not
 * need.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>

<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
end
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a
 * rule anything other than 'a' predicts exiting.
 */

```

```

* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
<if(eotPredictsAlt)>
else
  alt<decisionNumber> = <eotPredictsAlt>
<endif>
end
>>

/** An accept state indicates a unique alternative has been predicted */
/** It is not clear that decisionNumber is available here */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates)::=
<<
<labelExpr> <if(predicates)>&& <predicates><endif>
  <targetState>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
case <LA(k)>
  <edges; separator="\n">
  else
    <if(eotPredictsAlt)>
      alt<decisionNumber> = <eotPredictsAlt><\n>
    <else>

```

```

        raise "Expected: <description>"<\n>
    <endif>
end
>>

/**
 * eotPredictsAlt is not relevant here
 */
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
case <LA(k)>
    <edges; separator="\n">
end
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
case <LA(k)>
    <edges; separator="\n">
    <if(eotPredictsAlt)><\n>
    else
        alt<decisionNumber> = <eotPredictsAlt>
    <endif>
end
>>

dfaEdgeSwitch(labels, targetState)::=
<<
<if(PARSER)>
when <labels: {:<it>} ; separator=","><\n>
<else>
when <labels: {<it>} ; separator=","><\n>
<endif>
    <targetState>
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description)::=
<<
alt<decisionNumber> = DFA<decisionNumber>.predict(self, @input)
>>

```

```

/** Generate the tables and support code needed for the DFAState object
 * argument. Unless there is a semantic predicate (or syn pred, which
 * become sem preds), all states should be encoded in the state tables.
 * Consequently, cyclicDFAState/cyclicDFAEdge,eotDFAEdge templates are
 * not used except for special DFA states that cannot be encoded as
 * a transition table.
 */
cyclicDFA(dfa)::=
<<

DFA<dfa.decisionNumber> = DFA.new(
  [<dfa.eot; wrap="\n   ", separator=",", null="-1">],
  [<dfa.eof; wrap="\n   ", separator=",", null="-1">],
  [<dfa.min; wrap="\n   ", separator=",", null="0">],
  [<dfa.max; wrap="\n   ", separator=",", null="0">],
  [<dfa.accept; wrap="\n   ", separator=",", null="-1">],
  [<dfa.special; wrap="\n   ", separator=",", null="-1">],
  [
    <dfa.transition: {s | [<s; wrap="\n   ", separator=",", null="-1">]}; separator=",\n", null="">
  ]
)

def special_state_transition(s)
  <if(dfa.specialStateSTs)>
  case s
  <dfa.specialStateSTs: {state |
  when <i0>
  <state>}; separator="\n">
  end

  raise "Expected: <dfa.description>"
  <else>
  -1
  <endif>
end

public :special_state_transition
>>

/** A special state in a cyclic DFA; special means has a semantic predicate
 * or it's a huge set of symbols to check.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState)::=
<<
  <if(semPredState)>
  @input.rewind(0)
  <else>
  look_ahead_<decisionNumber>_<stateNumber> = <LA(1)>

```



```

<endif>
s = -1
<edges>
return s if s >= 0
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special
 * states.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates)::=
<<
return s = <targetStateNumber> if (<labelExpr>) <if(predicates)>&& (<predicates>)<endif><\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates)::=
<<
s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right)::= "<left> && <right>"

orPredicates(operands)::=
<<
(<operands; separator=" || ">)
>>

notPredicate(pred)::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description)::= "<pred>"

evalSynPredicate(pred,description)::= "<pred>()"

/**
 * It's not really clear that decisionNumber and stateNumber are available here
 */
lookaheadTest(atom,k,atomAsInt)::=
<<
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> == <atom>
<else>
look_ahead<decisionNumber>_<stateNumber> == :<atom>
<endif>

```

```
>>
```

```
/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable  
 * somewhere. Must ask for the lookahead directly.  
 */
```

```
isolatedLookaheadTest(atom,k,atomAsInt) ::=
```

```
<<
```

```
<if(LEXER)>
```

```
<LA(k)> == <atom>
```

```
<else>
```

```
<LA(k)> == :<atom>
```

```
<endif>
```

```
>>
```

```
/**
```

```
 * It's not really clear that decisionNumber and stateNumber are available here
```

```
 */
```

```
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt)::=
```

```
<<
```

```
<if(LEXER)>
```

```
(look_ahead<decisionNumber>_<stateNumber> \>= <lower> && look_ahead<decisionNumber>_<stateNumber>
```

```
\<= <upper>)
```

```
<else>
```

```
(TOKENS[look_ahead<decisionNumber>_<stateNumber>] \>= <lowerAsInt> &&
```

```
TOKENS[look_ahead<decisionNumber>_<stateNumber>] \<= <upperAsInt>)
```

```
<endif>
```

```
>>
```

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
```

```
<<
```

```
<if(LEXER)>
```

```
(<LA(k)> \>= <lower> && <LA(k)> \<= <upper>)
```

```
<else>
```

```
(TOKENS[<LA(k)>] \>= <lowerAsInt> && TOKENS[<LA(k)>] \<= <upperAsInt>)
```

```
<endif>
```

```
>>
```

```
setTest(ranges) ::=
```

```
<<
```

```
<ranges; separator=" || ">
```

```
>>
```

```
// A T T R I B U T E S
```

```
parameterAttributeRef(attr)::= "<attr.name>"
```

```
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"
```

```

scopeAttributeRef(scope,attr,index,negIndex)::=
<<
  raise "scopeAttributeRef not implemented"
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::=
<<
  raise "scopeSetAttributeRef not implemented"
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope)::=
<<
  raise "isolatedDynamicScopeRef not implemented"
>>

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr)::=
<<
<if(referencedRule.hasMultipleReturnValues)>
  _<scope>[:<attr.name>]
<else>
  _<scope>
<endif>
>>

/**
<if(referencedRule.hasMultipleReturnValues)>
<scope>[<attr.index>] # TODO: need "Attribute.index" for this to work
<else>
<scope>
<endif>
>>
**/

returnAttributeRef(ruleDescriptor,attr)::=
<<
  _retval_<attr.name>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::=
<<
  _retval_<attr.name> = <expr>
>>

```

```

/** How to translate $tokenLabel */
tokenLabelRef(label)::= "_<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label)::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr)::= "_<scope>.text"
tokenLabelPropertyRef_type(scope,attr)::= "_<scope>.token_type"
tokenLabelPropertyRef_line(scope,attr)::= "_<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "_<scope>.pos"
tokenLabelPropertyRef_channel(scope,attr)::= "_<scope>.channel"
tokenLabelPropertyRef_index(scope,attr)::= "_<scope>.index"

tokenLabelPropertyRef_tree(scope,attr)::= <<
  raise "tokenLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_start(scope,attr)::=
<<
  raise "ruleLabelPropertyRef_start not implemented"
>>

ruleLabelPropertyRef_stop(scope,attr)::=
<<
  raise "ruleLabelPropertyRef_stop not implemented"
>>

ruleLabelPropertyRef_tree(scope,attr)::=
<<
  raise "ruleLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_text(scope,attr)::=
<<
  raise "ruleLabelPropertyRef_text not implemented"
>>

ruleLabelPropertyRef_st(scope,attr)::=
<<
  raise "ruleLabelPropertyRef_st not implemented"
>>

```

```

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label)::=
<<
  raise "lexerRuleLabel not implemented"
>>

lexerRuleLabelPropertyRef_type(scope,attr)::=
<<
  raise "lexerRuleLabelPropertyRef_type not implemented"
>>

lexerRuleLabelPropertyRef_line(scope,attr)::=
<<
  raise "lexerRuleLabelPropertyRef_line not implemented"
>>

lexerRuleLabelPropertyRef_pos(scope,attr)::=
<<
  raise "lexerRuleLabelPropertyRef_pos not implemented"
>>

lexerRuleLabelPropertyRef_channel(scope,attr)::=
<<
  raise "lexerRuleLabelPropertyRef_channel not implemented"
>>

lexerRuleLabelPropertyRef_index(scope,attr)::=
<<
  raise "lexerRuleLabelPropertyRef_index not implemented"
>>

lexerRuleLabelPropertyRef_text(scope,attr)::=
<<
  raise "lexerRuleLabelPropertyRef_text not implemented"
>>

lexerRulePropertyRef_text(scope,attr) ::= "@text"
lexerRulePropertyRef_type(scope,attr) ::= <<
  raise "lexerRulePropertyRef_type not implemented"
>>

lexerRulePropertyRef_line(scope,attr) ::= "@line"
lexerRulePropertyRef_pos(scope,attr) ::= "@pos"

lexerRulePropertyRef_index(scope,attr) ::= <<
  raise "lexerRulePropertyRef_index not implemented"

```

```

>>
lexerRulePropertyRef_channel(scope,attr) ::= "@channel"

lexerRulePropertyRef_start(scope,attr) ::= "@start"
lexerRulePropertyRef_stop(scope,attr) ::= <<
raise "lexerRulePropertyRef_stop not implemented"
>>

ruleSetPropertyRef_tree(scope,attr,expr) ::= <<
raise "ruleSetPropertyRef_tree not implemented"
>>
ruleSetPropertyRef_st(scope,attr,expr) ::= <<
raise "ruleSetPropertyRef_st not implemented"
>>

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr)::=
<<
raise "rulePropertyRef_start not implemented"
>>

rulePropertyRef_stop(scope,attr)::=
<<
raise "rulePropertyRef_stop not implemented"
>>

rulePropertyRef_tree(scope,attr)::=
<<
raise "rulePropertyRef_tree not implemented"
>>

rulePropertyRef_text(scope,attr)::=
<<
raise "rulePropertyRef_text not implemented"
>>

rulePropertyRef_st(scope,attr)::=
<<
raise "rulePropertyRef_st not implemented"
>>

/** How to execute an action */
/** TODO: add syntactic predicate & backtracking gates */
execAction(action)::=
<<

```

```

<action>
>>

// M I S C (properties, etc...)

codeFileExtension()::=".rb"

true()::="true"
false()::="false"

noRewrite(rewriteBlockLevel, treeLevel) ::= ""

////////// ----- private templates -----

bitset()::=
<<
  raise "bitset not implemented"
>>

element() ::= "<it.el>"

plainBlock(decls, alts, description) ::=
<<
<decls>
<alts>
>>

switchBlock(description, decisionNumber, maxAlt, alts, decls, decision) ::=
<<
# <description>
alt<decisionNumber> = <maxAlt>
<decls>
<decision>
case alt<decisionNumber>
  <alts:switchCase(); separator="\n">
end
>>

switchCase() ::=
<<
when <i>
  <it>
>>

LA(k) ::=
<<

```

```
<if(LEXER)>
@input.look_ahead(<k>)
<else>
look_ahead(<k>)
<endif>
>>
```

```
synpred(name) ::= <<
def <name>
  start = @input.mark()
  @backtracking += 1
  <name>_fragment()
  @backtracking -= 1

  success = !@failed
  @input.rewind(start)
  @failed = false

  return success
end
>>
```

```
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>
```

```
dfaClass() ::= <<
<if(cyclicDFAs)>
class DFA
  def initialize(eot, eof, min, max, accept, special, transition)
    @eot = eot
    @eof = eof
    @min = min
    @max = max
    @accept = accept
    @special = special
    @transition = transition
  end

  def predict(parser, input)
    mark = input.mark()
    s = 0 # we always start at s0
    begin
      loop do
        special_state = @special[s]
        if special_state >= 0
```



```

        s = parser.special_state_transition(special_state)
        input.consume()
    next
end

if @accept[s] >= 1
    return @accept[s]
end

# look for a normal char transition
c = input.look_ahead(1).to_i
if c != :EOF && c >= @min[s] && c <= @max[s]
    next_state = @transition[s][c - @min[s]] # move to next state
    if next_state < 0
        # was in range but not a normal transition
        # must check EOT, which is like the else clause.
        # eot[s]>=0 indicates that an EOT edge goes to another
        # state.
        if @eot[s] >= 0 # EOT Transition to accept state?
            s = @eot[s]
            input.consume()
            next
        end
        raise "No viable alt"
    end
    s = next_state
    input.consume()
    next
end
if @eot[s] >= 0 # EOT Transition?
    s = @eot[s]
    input.consume()
    next
end
if c == :EOF && @eof[s] >= 0 # EOF Transition to accept state?
    return @accept[@eof[s]]
end

# not in range and not EOF/EOT, must be invalid symbol
raise "No viable alt"
end
ensure
    input.rewind(mark)
end
end
end
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Ruby/Ruby.stg

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*/

/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

*/

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/templates/messages/formats/gnu.stg

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

```

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
}

```

```

<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

```

```
// TOKEN AST STUFF
```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

```

```

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

```

```

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** ^(ID ...) auto construct */

```

```

tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( state.backtracking==0 ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif><\n>
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>}<endif>
  <endif>
  >>

```

```

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
  >>

```

```

// SET AST

```

```

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( state.backtracking==0 ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif><\n>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <endif>
  }
  )>
  >>

```

```

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
  <noRewrite()> <! set return tree !>
  >>

```

```

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)>

```

```

>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>( <label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```

```

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp(>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg

```

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```

/*

```

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> _first_0 = null;

<ASTLabelType> _last = null;<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>

<if(rewriteMode)>

retval.Tree = (<ASTLabelType>)_first_0;

if (adaptor.GetParent(retval.Tree)!=null && adaptor.IsNil(adaptor.GetParent(retval.Tree)))

retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);

<endif>

<if(backtracking)>}<endif>

>>

/** match ^(root children) in tree parser; override here to

* add tree construction actions.

```

*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = (<ASTLabelType>) <root.el.label>.Tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1) == Token.DOWN )
{
    Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

```

```

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>
}
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
}

```

```

<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>

```

>>

```
matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>
```

```
matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>
```

// RULE REF AST

```
/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = (<ASTLabelType>) <label>.Tree;
<endif>
>>
```

```
/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>
```

```
/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
```

```

<if(backtracking)>if ( state.backtracking == 0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>

```

```
<ifndef(!rewriteMode)>
<ifndef(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<ifndef(backtracking)>
}
<endif>
<endif>
>>
```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/CSharp/ASTTreeParser.stg

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```

*/
group AST;

/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
/* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
 * tree parsers and producers require.
 */
@genericParser.apifuncs() ::= <<
<if(PARSER)>
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);<\n>
<endif>
ctx->vectors = antlr3VectorFactoryNew(0);
>>

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
<if(PARSER)>
/* We created the adaptor so we must free it
 */
ADAPTOR->free(ADAPTOR);
<endif>
>>

@returnScope.ruleReturnMembers() ::= <<

<super.ASTLabelType()> tree;

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;<\n>
>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;<\n>
>>

ruleLabelDefs() ::= <<

```



```

<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
 * them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
 * one alt will be taken in a rule, but we are declaring all the streams here. So we define
 * a macro that contains the create code, then use this macro later to check if the stream
 * has been created yet. Checking for NULL is almost free in C.
 */
ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree = NULL;}; separator="\n">

<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{stream_<it> = NULL;
  #define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
  antlr3RewriteRule<rewriteElementType>StreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token
  <it>"); } }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{stream_<it> = NULL;
  #define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
  antlr3RewriteRuleSubtreeStreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"rule <it>"); };
  separator="\n">

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree = NULL;
<endif>
>>

/** a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<

```

```

<if(autoAST)>
<if(outerAlt)>
<endif>
<endif>
>>

@alt.initializations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>CREATE_stream_<token>; stream_<token>-
>add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>

```

```

<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelTrack(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelAST(...)>
>>

// RULE REF AST

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/* How to accumulate lists when we are doing rewrite tracking...
*/
listLabelTrack(label) ::= <<
/* listLabelTrack(label)
*/
if (list_<label> == NULL)
{
list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);
>>

/* How to accumulate lists of rule outputs (only allowed with AST

```

- * option but if the user is going to walk the tree, they will want
- * all their custom elements from rule returns.
- *
- * Normally, we use inline structures (which the compiler lays down
- * code to copy from heap allocations. However, here we want to accumulate copies
- * of the returned structures because we are adding them to a list. This only makes sense if the
- * grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
- * returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
- * do a tree re-write, then the user may wish to iterate the structures returned by the rule in
- * action code and will expect the user defined returns[] elements to be available when they do this.
- * Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
- * a function that can free the allocated space. We cannot know how to free user allocated elements and
- * presume that the user will know to do this using their own factories for the structures they allocate.
- */

```
listLabelAST(label) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
{
    RETURN_TYPE_<label> * tcopy;

    tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no
memory allocation checks! */
    ANTLR3_MEMCPY((void *)tcopy, (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
    list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */<\n>
}
>>
```

// R e w r i t e

```
rewriteCode(
alts,
description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel,
enclosingTreeLevel,
treeLevel) ::=
<<
```

/* AST REWRITE

* elements : <referencedElementsDeep; separator=", ">

```

* token labels    : <referencedTokenLabels; separator=", ">
* rule labels     : <referencedRuleLabels; separator=", ">
* token list labels : <referencedTokenListLabels; separator=", ">
* rule list labels : <referencedRuleListLabels; separator=", ">
*/
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <\n>
<endif>
{
<rewriteCodeLabelsDecl()>
<rewriteCodeLabelsInit()>
root_0    = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<prevRuleRootRef()>.tree = root_0;
<alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
    ADAPTOR->getChildIndex(ADAPTOR, retval.start),
    ADAPTOR->getChildIndex(ADAPTOR, _last),
    retval.tree);
<endif>
<endif>
<prevRuleRootRef()>.tree = root_0; // set result root
<rewriteCodeLabelsFree()>
}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
  :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
  separator="\n"
>
<referencedTokenListLabels
  :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
  separator="\n"
>
<referencedRuleLabels
  :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
  separator="\n"
>
<referencedRuleListLabels
  :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
  separator="\n"
>
>>

```

```

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
:{ stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>);};
separator="\n"
>
<referencedTokenListLabels
:{ stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>); };
separator="\n"
>
<referencedRuleLabels
:{ stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
separator="\n"
>
<referencedRuleListLabels
:{ stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>);};
separator="\n"
>
>>
rewriteCodeLabelsFree() ::= <<
<referencedTokenLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedTokenListLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
<referencedRuleLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
<referencedRuleListLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs

```

```

referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
if ( <referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) } ;
separator="|| "> )
{
<alt>
}
<referencedElementsDeep:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);<n>}>
}<n>
}>
>>

rewriteClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) } ; separator="||
"> )
{
<alt>
}
<referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>);<n>}>
}<n>
}>
>>
RewriteEarlyExitException() ::=
<<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name      = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>
rewritePositiveClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
if (<referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) } ; separator="|| "> )
{
<RewriteEarlyExitException()>
}
}

```

```

else
{
while ( <referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) }; separator="|| "> ) {
<alt>
}
<referencedElements:{el | stream_<el>->reset(stream_<el>);<\n>}>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}<\n>
<else>
{
<a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \<-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<root:rewriteElement(>
<children:rewriteElement(>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement(>"

rewriteElement(e) ::= <<
<@pregen(>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
<endif>
>>

```



```

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ?
NULL : stream_<label>->nextToken(stream_<label>), root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createRewriteNodeFromElement(...)>, root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createImaginaryNode(tokenType=token, ...)>, root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

```

```

rewriteRuleRef(rule,dup) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
>nextTree(stream_<rule>));<\n>
>>

rewriteRuleRefRoot(rule,dup) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
: stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label> == NULL ? NULL
: stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot((<ASTLabelType>)(stream_<label> == NULL
? NULL : stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

```

```

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
<hetero>New(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
<if(args)>

#if <length(args)> == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=", ">))
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args; separator=", ">)
#endif

<else>
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)"<tokenType>")
<endif>
<endif>
>>

```

```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
<hetero>New(stream_<token>->nextToken(stream_<token>)<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>

#if <length(args)> == 2
ADAPTOR->createTypeTokenText(ADAPTOR, <token>->getType(<token>, TOKTEXT(<token>, <args; separator=", ">)) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>->getType(<token>, <token>, <args; separator=", ">)
#endif

<else>
stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
<endif>
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/C/AST.stg

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*/

/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type><message.id>: <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/templates/messages/formats/antlr.stg

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Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/CompositeGrammar.java
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/CompositeGrammarTree.java

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* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/ObjCTarget.java

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*/

/*

* This code generating template and the associated C runtime was produced by:

```

* Jim Idle jimi|hereisanat|idle|dotgoeshere|ws.
* If it causes the destruction of the Universe, it will be pretty cool so long as
* I am in a different one at the time.
*/
group C implements ANTLRCore ;

cTypeInitMap ::= [
  "int"   : "0",      // Integers  start out being 0
  "long"  : "0",      // Longs    start out being 0
  "float" : "0.0",    // Floats  start out being 0
  "double" : "0.0",   // Doubles start out being 0
  "ANTLR3_BOOLEAN" : "ANTLR3_FALSE", // Booleans start out being Antlr C for false
  "byte"   : "0",      // Bytes    start out being 0
  "short"  : "0",      // Shorts   start out being 0
  "char"   : "0",      // Chars    start out being 0
  default  : "NULL"    // Anything other than an atomic type (above) is a NULL (probably NULL pointer).
]

leadIn(type) ::=
<<
/** \file
* This <type> file was generated by $ANTLR version <ANTLRVersion>
*
* - From the grammar source file : <fileName>
* - On : <generatedTimestamp>
<if(LEXER)>
* - for the lexer : <name>Lexer
<endif>
<if(PARSER)>
* - for the parser : <name>Parser
<endif>
<if(TREE_PARSER)>
* - for the tree parser : <name>TreeParser
<endif>
*
* Editing it, at least manually, is not wise.
*
* C language generator and runtime by Jim Idle, jimi|hereisanat|idle|dotgoeshere|ws.
*
*
>>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
            PARSER,
            TREE_PARSER,

```

```

    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
<leadIn("C source")>
*/
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```

```
<if(actions.(actionScope).header)>
```

```
/* =====
```

```
* This is what the grammar programmer asked us to put at the top of every file.
```

```
*/
```

```
<actions.(actionScope).header>
```

```
/* End of Header action.
```

```
* =====
```

```
*/
```

```
<endif>
```

```
/* -----
```

```
* Include the ANTLR3 generated header file.
```

```
*/
```

```
#include "<name>.h"
```

```
<actions.(actionScope).postinclude>
```

```
/* ----- */
```

```
<docComment>
```

```
<if(literals)>
```

```
/** String literals used by <name> that we must do things like MATCHS() with.
```

```
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
```

```
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
```

```
* we perform this little trick of defining the literals as arrays of UINT32
```

```
* and passing in the address of these.
```

```
*/
```

```
<literals:{static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">
```

```
<endif>
```

```
/* MACROS that hide the C interface implementations from the
```

```
* generated code, which makes it a little more understandable to the human eye.
```

```
* I am very much against using C pre-processor macros for function calls and bits
```

```
* of code as you cannot see what is happening when single stepping in debuggers
```

- * and so on. The exception (in my book at least) is for generated code, where you are
- * not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
- * hides some indirect calls, but is always referring to the input stream. This is
- * probably more readable than `ctx->input->istream->input(snarfle0->blarg)` and allows me to rejig
- * the runtime interfaces without changing the generated code too often, without
- * confusing the reader of the generated output, who may not wish to know the gory
- * details of the interface inheritance.

*/

```
#define CTX ctx
```

```
/* Aids in accessing scopes for grammar programmers
*/
```

```
#undef SCOPE_TYPE
```

```
#undef SCOPE_STACK
```

```
#undef SCOPE_TOP
```

```
#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
```

```
#define SCOPE_STACK(scope) p<name>_##scope##_Stack
```

```
#define SCOPE_TOP(scope) ctx->p<name>_##scope##_Top
```

```
#define SCOPE_SIZE(scope) ctx->p<name>_##scope##_Stack_limit
```

```
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))
```

```
<if(LEXER)>
```

```
/* Macros for accessing things in a lexer
*/
```

```
#undef LEXER
```

```
#undef RECOGNIZER
```

```
#undef RULEMEMO
```

```
#undef GETCHARINDEX
```

```
#undef GETLINE
```

```
#undef GETCHARPOSITIONINLINE
```

```
#undef EMIT
```

```
#undef EMITNEW
```

```
#undef MATCHC
```

```
#undef MATCHS
```

```
#undef MATCHRANGE
```

```
#undef LTOKEN
```

```
#undef HASFAILED
```

```
#undef FAILEDFLAG
```

```
#undef INPUT
```

```
#undef STRSTREAM
```

```
#undef LA
```

```
#undef HASEXCEPTION
```

```
#undef EXCEPTION
```

```
#undef CONSTRUCTEX
```

```
#undef CONSUME
```

```
#undef LRECOVER
```

```

#undef MARK
#undef REWIND
#undef REWINDLAST
#undef BACKTRACKING
#undef MATCHANY
#undef MEMOIZE
#undef HAVEPARSEDRULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8

#define LEXER ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE RECOGNIZER->state
#define TOKSOURCE LEXSTATE->tokSource
#define GETCHARINDEX() LEXER->getCharIndex(LEXER)
#define GETLINE() LEXER->getLine(LEXER)
#define GETTEXT() LEXER->getText(LEXER)
#define GETCHARPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() LEXSTATE->type = _type; LEXER->emit(LEXER)
#define EMITNEW(t) LEXER->emitNew(LEXER, t)
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1,c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define LTOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)
#define BACKTRACKING LEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed
#define INPUT LEXER->input
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define EOF_TOKEN &(LEXSTATE->tokSource->eofToken)
#define HASEXCEPTION() (LEXSTATE->error == ANTLR3_TRUE)
#define EXCEPTION LEXSTATE->exception
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER() LEXER->recover(LEXER)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)

```

```

#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or 16 bit input
 * stream, then we can define our macros to use the direct pointers
 * in the input object, which is much faster than indirect calls. This
 * is really only significant to lexers with a lot of fragment rules (which
 * do not place LA(1) in a temporary at the moment) and even then
 * only if there is a lot of input (order of say 1M or so).
 */
#if defined(ANTLR3_INLINE_INPUT_ASCII) || defined(ANTLR3_INLINE_INPUT_UTF16)

# ifdef ANTLR3_INLINE_INPUT_ASCII

/* 8 bit "ASCII" (actually any 8 bit character set) */

# define NEXTCHAR ((pANTLR3_UINT8)(INPUT->nextChar))
# define DATAP ((pANTLR3_UINT8)(INPUT->data))

# else

# define NEXTCHAR ((pANTLR3_UINT16)(INPUT->nextChar))
# define DATAP ((pANTLR3_UINT16)(INPUT->data))

# endif

# define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
(ANTLR3_UCHAR)*(NEXTCHAR + n - 1))
# define CONSUME() \
{ \
if (NEXTCHAR < (DATAP + INPUT->sizeBuf)) \
{ \
INPUT->charPositionInLine++; \
if ((ANTLR3_UCHAR)*(NEXTCHAR) == INPUT->newlineChar) \
{ \
INPUT->line++; \
INPUT->charPositionInLine = 0; \
INPUT->currentLine = (void *) (NEXTCHAR + 1); \
} \
INPUT->nextChar = (void *) (NEXTCHAR + 1); \
} \
}

```

```

    }      \
}

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)

#endif
<endif>

<if(PARSER)>
/* Macros for accessing things in the parser
*/

#undef  PARSER
#undef  RECOGNIZER
#undef  HAVEPARSEDRULE
#undef  MEMOIZE
#undef  INPUT
#undef  STRSTREAM
#undef  HASEXCEPTION
#undef  EXCEPTION
#undef  MATCHT
#undef  MATCHANYT
#undef  FOLLOWSTACK
#undef  FOLLOWPUSH
#undef  FOLLOWPOP
#undef  PRECOVER
#undef  PREPORTERROR
#undef  LA
#undef  LT
#undef  CONSTRUCTEX
#undef  CONSUME
#undef  MARK
#undef  REWIND
#undef  REWINDLAST
#undef  PERRORECOVERY
#undef  HASFAILED
#undef  FAILEDFLAG
#undef  RECOVERFROMMISMATCHEDSET
#undef  RECOVERFROMMISMATCHEDELEMENT
#undef  INDEX
#undef  ADAPTOR
#undef  SEEK
#undef  RULEMEMO

```

```

#undef DBG

#define  PARSER      ctx->pParser
#define  RECOGNIZER  PARSER->rec
#define  PSRSTATE    RECOGNIZER->state
#define  HAVEPARSEDRULE(r)  RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define  MEMOIZE(ri,si)  RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define  INPUT      PARSER->tstream
#define  STRSTREAM   INPUT
#define  ISTREAM     INPUT->istream
#define  INDEX()     ISTREAM->index(INPUT->istream)
#define  HASEXCEPTION()  (PSRSTATE->error == ANTLR3_TRUE)
#define  EXCEPTION   PSRSTATE->exception
#define  MATCHT(t, fs)  RECOGNIZER->match(RECOGNIZER, t, fs)
#define  MATCHANYT()  RECOGNIZER->matchAny(RECOGNIZER)
#define  FOLLOWSTACK  PSRSTATE->following
#define  FOLLOWPUSH(x)  FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define  FOLLOWPOP()  FOLLOWSTACK->pop(FOLLOWSTACK)
#define  PRECOVER()   RECOGNIZER->recover(RECOGNIZER)
#define  PREPORTERROR()  RECOGNIZER->reportError(RECOGNIZER)
#define  LA(n)        INPUT->istream->_LA(ISTREAM, n)
#define  LT(n)        INPUT->_LT(INPUT, n)
#define  CONSTRUCTEX()  RECOGNIZER->exConstruct(RECOGNIZER)
#define  CONSUME()    ISTREAM->consume(ISTREAM)
#define  MARK()       ISTREAM->mark(ISTREAM)
#define  REWIND(m)     ISTREAM->rewind(ISTREAM, m)
#define  REWINDLAST()  ISTREAM->rewindLast(ISTREAM)
#define  SEEK(n)      ISTREAM->seek(ISTREAM, n)
#define  PERORRECOVERY  PSRSTATE->errorRecovery
#define  FAILEDFLAG   PSRSTATE->failed
#define  HASFAILED()  (FAILEDFLAG == ANTLR3_TRUE)
#define  BACKTRACKING  PSRSTATE->backtracking
#define  RECOVERFROMMISMATCHEDSET(s)  RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define  RECOVERFROMMISMATCHEDELEMENT(e)  RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define  ADAPTOR      ctx->adaptor
#define  RULEMEMO     PSRSTATE->ruleMemo
#define  DBG          RECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser
*/

#undef  PARSER
#undef  RECOGNIZER

```

```

#undef HAVEPARSEDRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef BACKTRACKING
#undef ADAPTOR
#undef RULEMEMO
#undef SEEK
#undef INDEX
#undef DBG

#define PARSE      ctx->pTreeParser
#define RECOGNIZER  PARSE->rec
#define PSRSTATE   RECOGNIZER->state
#define HAVEPARSEDRULE(r)  RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define INPUT      PARSE->ctnstream
#define ISTREAM    INPUT->tnstream->istream
#define STRSTREAM  INPUT->tnstream
#define HASEXCEPTION()  (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION  PSRSTATE->exception
#define MATCHT(t, fs)  RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT()  RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK  PSRSTATE->following
#define FOLLOWPUSH(x)  FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP()  FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER()  RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR()  RECOGNIZER->reportError(RECOGNIZER)
#define LA(n)  ISTREAM->_LA(ISTREAM, n)

```

```

#define LT(n) INPUT->tstream->_LT(INPUT->tstream, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define PERORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define INDEX() ISTREAM->index(ISTREAM)
#define DBG RECOGNIZER->debugger

```

```
<endif>
```

```
#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8)txt
```

```

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
* then for the present you must use different names for your defines as these are hard coded
* in the code generator. It would be better not to use such names internally, and maybe
* we can change this in a forthcoming release. I deliberately do not #undef these
* here as this will at least give you a redefined error somewhere if they clash.
*/

```

```

#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

```

```

/* =====
* Functions to create and destroy scopes. First come the rule scopes, followed
* by the global declared scopes.
*/

```

```

<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>
<endif>}>

```

```
<recognizer.scopes: {<if(it.isDynamicGlobalScope)>
```



```

<globalAttributeScopeFuncDecl(scope=it)>
<globalAttributeScopeFuncs(scope=it)>
<endif>}>

/* ===== */

/* =====
* Start of recognizer
*/

<recognizer>

/* End of code
* =====
*/

>>
headerFileExtension() ::= ".h"

headerFile( LEXER,
            PARSEr,
            TREE_PARSER,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,
            rules,
            cyclicDFAs,
            bitsets,
            buildTemplate,
            buildAST,
            rewriteMode,
            profile,
            backtracking,
            synpreds,
            memoize,
            numRules,
            fileName,
            ANTLRVersion,
            generatedTimestamp,
            trace,
            scopes,
            superClass,
            literals
            ) ::=

```

```

<<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
*
<endif>
* The methods in p<name> are as follows:
*
* <rules: {r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)>
p<name>-><r.ruleDescriptor.name>(p<name><endif>}; separator="\n * ">
*
* The return type for any particular rule is of course determined by the source
* grammar file.
*/
// [The "BSD licence"]
// Copyright (c) 2005-2009 Jim Idle, Temporal Wave LLC
// http://www.temporal-wave.com
// http://www.linkedin.com/in/jimidle
//
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```

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```

```

#ifndef _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 C runtime definitions
*/
#include <antlr3.h>

/* End of standard antlr 3 runtime definitions
* =====
*/
<actions.(actionScope).includes>

#ifdef __cplusplus
extern "C" {
#endif

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegates and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|#include \<<g.recognizerName>.h>}; separator="\n">

<endif>

```

```

<actions.(actionScope).header>

#ifdef ANTLR3_WINDOWS
// Disable: Unreferenced parameter, - Rules with parameters that are not used
// constant conditional, - ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable - tree rewrite variables declared but not needed
// Unreferenced local variable - lexer rule declares but does not always use _type
// potentially uninitialized variable used - retval always returned from a rule
// unreferenced local function has been removed - susually getTokenNames or freeScope, they can go without
warnigns
//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>

/* =====
* BACKTRACKING IS ENABLED
* =====
*/
<endif>

<rules:{ r |<headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>}>

<scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif>}>
<rules:{ r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>
<if(recognizer.grammar.delegators)>
// Include delegator definition header files
//
<recognizer.grammar.delegators: { g|#include \<<g.recognizerName>.h>; separator="\n">

<endif>

/** Context tracking structure for <mainName()>
*/
struct <name>_Ctx_struct
{

```

```

/** Built in ANTLR3 context tracker contains all the generic elements
 * required for context tracking.
 */
<if(PARSER)>
  pANTLR3_PARSER  pParser;
<endif>
<if(LEXER)>
  pANTLR3_LEXER  pLexer;
<endif>
<if(TREE_PARSER)>
  pANTLR3_TREE_PARSER  pTreeParser;
<endif>

<if(recognizer.grammar.delegates)>
  <recognizer.grammar.delegates:
    {g|p<g.recognizerName> <g.delegateName(>); separator="\n">
  <endif>
<if(recognizer.grammar.delegators)>
  <recognizer.grammar.delegators:
    {g|p<g.recognizerName> <g.delegateName(>); separator="\n">
  <endif>
<scopes:{<if(it.isDynamicGlobalScope)>
  <globalAttributeScopeDef(scope=it)>
<endif>} ; separator="\n\n">
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
  <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif>}>

<if(LEXER)>
  <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*m<r.ruleDescriptor.name>) (struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);<endif>} ; separator="\n";>
<endif>
<if(!LEXER)>
  <rules:{r | <headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>) (struct
<name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
<! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
  // Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
  <headerReturnType(ruleDescriptor)> (*<ruleDescriptor.name>)(struct <name>_Ctx_struct *
ctx<if(ruleDescriptor.parameterScope)>, <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
<endif>
  const char * (*getGrammarFileName());
  void (*free) (struct <name>_Ctx_struct * ctx);
  <@members>

```

```

<@end>
<actions.(actionScope).context>
};

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
ANTLR3_API p<name> <name>New      (<inputType()> instream<recognizer.grammar.delegators:{g|,
p<g.recognizerName> <g.delegateName()>}>);
ANTLR3_API p<name> <name>NewSSD   (<inputType()> instream,
pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName>
<g.delegateName()>}>);
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8 <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 * \{
 *
 * Antlr will define EOF, but we can't use that as it is too common in
 * in C header files and that would be confusing. There is no way to filter this out at the moment
 * so we just undef it here for now. That isn't the value we get back from C recognizers
 * anyway. We are looking for ANTLR3_TOKEN_EOF.
 */
#ifdef EOF
#undef EOF
#endif
#ifdef Tokens
#undef Tokens
#endif
<tokens:{#define <it.name>    <it.type>}; separator="\n">
#ifdef EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif

#ifdef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/* End of token definitions for <name>
 * =====
 */
/** \} */

#ifdef __cplusplus
}

```

```

#endif

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

inputType() ::= <<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>

```

```

<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>

// Produce the lexer output
//
lexer( grammar,
      name,
      tokens,
      scopes,
      rules,
      numRules,
      labelType="pANTLR3_COMMON_TOKEN",
      filterMode,
      superClass) ::= <<

<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef MEMOIZE
#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER,
r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
<if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>

```



```

static void <name>Free(p<name> ctx);

/* =====
 * Lexer matching rules end.
 * =====
 */

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>

<actions.lexer.members>

static void
<name>Free (p<name> ctx)
{
<if(memoize)>
if (RULEMEMO != NULL)
{
RULEMEMO->free(RULEMEMO);
RULEMEMO = NULL;
}
<endif>
<if(grammar.directDelegates)>
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
<grammar.directDelegates:
    {g|ctx-><g.delegateName()>->pLexer->rec->state = NULL;
    ctx-><g.delegateName()>->free(ctx-><g.delegateName()>);}; separator="\n">
<endif>
LEXER->free(LEXER);

    ANTLR3_FREE(ctx);
}

/** \brief Name of the grammar file that generated this code
 */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
 */
static const char * getGrammarFileName()
{
return fileName;
}

<if(filterMode)>
    <filteringNextToken()>
<endif>

```

```

/** \brief Create a new lexer called <name>
 *
 * \param[in] instream Pointer to an initialized input stream
 * \return
 * - Success p<name> initialized for the lex start
 * - Fail NULL
 */
ANTLR3_API p<name> <name>New
(<inputType(>) instream<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName(>}&>>)
{
    // See if we can create a new lexer with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g.delegateName(>}&>>);
}

/** \brief Create a new lexer called <name>
 *
 * \param[in] instream Pointer to an initialized input stream
 * \param[state] state Previously created shared recognizer stat
 * \return
 * - Success p<name> initialized for the lex start
 * - Fail NULL
 */
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName(>}&>>)
{
    p<name> ctx; // Context structure we will build and return

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if (ctx == NULL)
    {
        // Failed to allocate memory for lexer context
        return NULL;
    }

    /* -----
    * Memory for basic structure is allocated, now to fill in
    * in base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 lexer function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here so you can get a sense
    * of what goes where.
    */

```

```

/* Create a base lexer, using the supplied input stream
*/
ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

/* Check that we allocated the memory correctly
*/
if (ctx->pLexer == NULL)
{
    ANTLR3_FREE(ctx);
    return NULL;
}
<if(memoize)>
<if(grammar.grammarIsRoot)>
    // Create a LIST for recording rule memos.
    //
    ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

/* Install the implementation of our <name> interface
*/
<rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> =
m<r.ruleDescriptor.name>;<endif>} ; separator="\n";>

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE
* it will call mTokens() in this generated code, and will pass it the ctx
* pointer of this lexer, not the context of the base lexer, so store that now.
*/
ctx->pLexer->ctx = ctx;

/**Install the token matching function
*/
ctx->pLexer->mTokens = (void (*) (void *))(mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g.delegateName()> = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
ctx<grammar.delegates:{g, <g.delegateName()>>});}; separator="\n">
<endif>
<if(grammar.delegates)>
// Install the pointers back to lexers that will delegate us to perform certain functions

```

```

// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()> = <g:delegateName()>; separator="\n">
<endif>
<if(filterMode)>
    /* We have filter mode turned on, so install the filtering nextToken function
    */
    ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

    /* Return the newly built lexer to the caller
    */
    return ctx;
}
<if(cyclicDFAs)>

/* =====
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the lexer
*/
<endif>

/* =====
* Functions to match the lexer grammar defined tokens from the input stream
*/

<rules; separator="\n\n">

/* =====
* Lexer matching rules end.
* =====
*/
<if(synpreds)>

/* =====
* Lexer syntactic predicates
*/
<synpreds:{p | <lexerSynpred(predname=p)>}>
/* =====
* Lexer syntactic predicates end.
* =====
*/
<endif>

```

```

/* End of Lexer code
* =====
* =====
*/

>>

filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/
static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3_LEXER lexer;
    pANTLR3_RECOGNIZER_SHARED_STATE state;

    lexer = (pANTLR3_LEXER)(toksource->super);
    state = lexer->rec->state;

    /* Get rid of any previous token (token factory takes care of
    * any deallocation when this token is finally used up.
    */
    state ->token = NULL;
    state ->error = ANTLR3_FALSE; /* Start out without an exception */
    state ->failed = ANTLR3_FALSE;

    /* Record the start of the token in our input stream.
    */
    state->tokenStartCharIndex = lexer->input->istream->index(lexer->input->istream);
    state->tokenStartCharPositionInLine = lexer->input->getCharPositionInLine(lexer->input);
    state->tokenStartLine = lexer->input->getLine(lexer->input);
    state->text = NULL;

    /* Now call the matching rules and see if we can generate a new token
    */
    for (;;)
    {
        if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
        {
            /* Reached the end of the stream, nothing more to do.
            */
            pANTLR3_COMMON_TOKEN teof = &(toksource->eofToken);

```



```

        tokens,
        tokenNames,
        rules,
        numRules,
        bitsets,
        inputStreamType,
        superClass,
        ASTLabelType="pANTLR3_BASE_TREE",
        labelType,
members,
rewriteElementType, filterMode
    ) ::= <<

<if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
 *   error reporting.
 */
pANTLR3_UINT8 <name>TokenNames[<length(tokenNames)>+4]
    = {
        (pANTLR3_UINT8) "\<invalid>", /* String to print to indicate an invalid token */
        (pANTLR3_UINT8) "\<EOR>",
        (pANTLR3_UINT8) "\<DOWN>",
        (pANTLR3_UINT8) "\<UP>",
        <tokenNames:{(pANTLR3_UINT8) <it>}; separator=",\n">
    };
<endif>

<@members>

<@end>
<rules:{r | <ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>}>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeFuncMacro(scope=it)><endif>}>

// Forward declare the locally static matching functions we have generated.
//
<rules:{r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)> <r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
static void <name>Free(p<name> ctx);
<if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<if(recognizer.grammar.delegatedRules)>
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)>
<ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope)>,

```

```
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
```

```
<endif>
```

```
<endif>
```

```
/* For use in tree output where we are accumulating rule labels via label += ruleRef
```

```
* we need a function that knows how to free a return scope when the list is destroyed.
```

```
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
```

```
*/
```

```
static void ANTLR3_CDECL freeScope(void * scope)
```

```
{
```

```
    ANTLR3_FREE(scope);
```

```
}
```

```
/** \brief Name of the grammar file that generated this code
```

```
*/
```

```
static const char fileName[] = "<fileName>";
```

```
/** \brief Return the name of the grammar file that generated this code.
```

```
*/
```

```
static const char * getGrammarFileName()
```

```
{
```

```
    return fileName;
```

```
}
```

```
/** \brief Create a new <name> parser and return a context for it.
```

```
*
```

```
* \param[in] instream Pointer to an input stream interface.
```

```
*
```

```
* \return Pointer to new parser context upon success.
```

```
*/
```

```
ANTLR3_API p<name>
```

```
<name>New (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>  
<g:delegateName(>>>)
```

```
{
```

```
    // See if we can create a new parser with the standard constructor
```

```
    //
```

```
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName(>>>);
```

```
}
```

```
/** \brief Create a new <name> parser and return a context for it.
```

```
*
```

```
* \param[in] instream Pointer to an input stream interface.
```

```
*
```

```
* \return Pointer to new parser context upon success.
```

```
*/
```

```
ANTLR3_API p<name>
```

```
<name>NewSSD (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE  
state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName(>>>)
```



```

{
    p<name> ctx;    /* Context structure we will build and return */

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if (ctx == NULL)
    {
        // Failed to allocate memory for parser context
        //
        return NULL;
    }

    /* -----
    * Memory for basic structure is allocated, now to fill in
    * the base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 parser function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here, in order that you can get a sense
    * of what goes where.
    */

<if(PARSER)>
    /* Create a base parser/recognizer, using the supplied token stream
    */
    ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
<endif>
<if(TREE_PARSER)>
    /* Create a base Tree parser/recognizer, using the supplied tree node stream
    */
    ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

    /* Install the implementation of our <name> interface
    */
    <rules:{r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n";>
<if(grammar.delegatedRules)>
    // Install the delegated methods so that they appear to be a part of this
    // parser
    //
    <grammar.delegatedRules:{ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;};
separator="\n";>
<endif>

    ctx->free = <name>Free;
    ctx->getGrammarFileName = getGrammarFileName;

```

```

/* Install the scope pushing methods.
*/
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><\n>
<endif>}>
  <recognizer.scopes:{<if(it.isDynamicGlobalScope)>
<globalAttributeScope(scope=it)><\n>
<endif>}>
  <@apifuncs>

  <@end>
<if(grammar.directDelegates)>
// Initialize the parsers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
  {g|ctx-><g.delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE,
ctx<grammar.delegates:{g|, <g.delegateName()>}>);}; separator="\n">
<endif>
<if(grammar.delegates)>
// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.
//
<grammar.delegates:
  {g|ctx-><g.delegateName()> = <g.delegateName()>}; separator="\n">
<endif>
  <actions.parser.apifuncs>
  <actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
  /* Create a LIST for recording rule memos.
  */
  RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */<\n>
<endif>
<endif>
  /* Install the token table
  */
  PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

  <@debugStuff()>

  /* Return the newly built parser to the caller
  */
  return ctx;
}

/** Free the parser resources
*/

```

```

static void
<name>Free(p<name> ctx)
{
    /* Free any scope memory
    */
    <rules: {r
|<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n><endif> }>
    <recognizer.scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(scope=it)><\n><endif> }>

    <@cleanup>
    <@end>
<if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //
    <grammar.directDelegates:
        {g| ctx-><g:delegateName()-><if(TREE_PARSER)>pTreeParser<else>pParser<endif>->rec->state = NULL;
        ctx-><g:delegateName()->free(ctx-><g:delegateName()->);}; separator="\n">
    <endif>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    if (RULEMEMO != NULL)
    {
        RULEMEMO->free(RULEMEMO);
        RULEMEMO = NULL;
    }
<endif>
<endif>
    // Free this parser
    //
    <if(TREE_PARSER)>
        ctx->pTreeParser->free(ctx->pTreeParser);<\n>
    <else>
        ctx->pParser->free(ctx->pParser);<\n>
    <endif>
    ANTLR3_FREE(ctx);

    /* Everything is released, so we can return
    */
    return;
}

/** Return token names used by this <grammarType()>
*
* The returned pointer is used as an index into the token names table (using the token
* number as the index).
*
* \return Pointer to first char * in the table.

```

```

*/
static pANTLR3_UINT8 *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets
*/
<bitsets:bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<if(cyclicDFAs)>

/* =====
* DFA tables for the parser
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the parser
*/
<endif>

/* =====
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor|
    <returnType()> <ruleDescriptor.name><p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>
    \{
        <if(ruleDescriptor.hasReturn Value)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
    ><ruleDescriptor.name>(ctx-
    ><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", ">
    \}); separator="\n\n">
}
<endif>
/* End of parsing rules
* =====
*/

```

```

/* =====
* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>>
/* End of syntactic predicates
* =====
*/

>>

parser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    bitsets,
    ASTLabelType,
    superClass="Parser",
    labelType="pANTLR3_COMMON_TOKEN",
    members={<actions.parser.members>}
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN",
...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    globalAction,
    rules,
    numRules,
    bitsets,
    labelType={<ASTLabelType>},
    ASTLabelType="pANTLR3_BASE_TREE",
    superClass="TreeParser",
    members={<actions.treeparser.members>}, filterMode
) ::= <<

```

```

<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
<ruleLabelDefs()>
<ruleLabelInitializations()>
<if(trace)>
    ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
    <block>
    ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);

<else>
    <block>
<endif>
<ruleCleanUp()>
}
// $ANTLR end <ruleName>
>>

synpred(predname) ::= <<
static ANTLR3_BOOLEAN <predname>(p<name> ctx)
{
    ANTLR3_MARKER start;
    ANTLR3_BOOLEAN success;

    BACKTRACKING++;
    <@start()>
    start = MARK();
    <predname>_fragment(ctx); // can never throw exception
    success = !(FAILEDFLAG);
    REWIND(start);
    <@stop()>
    BACKTRACKING--;
    FAILEDFLAG = ANTLR3_FALSE;
    return success;
}<\n>

```

```

>>

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
<if(memoize)>
if ( (BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)) )
{
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = 0;<\n>
<endif>
<endif>
<(ruleDescriptor.actions.after):execAfter(>
<finalCode(finalBlock=finally)>
<if(!ruleDescriptor.isSynPred)>
<scopeClean()><\n>
<endif>
return <ruleReturnValue(>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if (HASEXCEPTION())
{
goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (HASFAILED())
{
<scopeClean()>
return <ruleReturnValue(>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (BACKTRACKING>0)
{
FAILEDFLAG = <>true(>;
<scopeClean()>
return <ruleReturnValue(>;

```

```

}
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
 * $ANTLR start <ruleName>
 * <fileName>:<description>
 */
static <returnType>
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
BACKTRACKING);<endif>
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <ruleLabelDefs()>
    <ruleInitializations()>
    <ruleDescriptor.actions.init>
    <ruleMemoization(rname=ruleName)>
    <ruleLabelInitializations()>
    <@preamble()>
    {
        <block>
    }

    <ruleCleanUp()>
<if(exceptions)>
    if (HASEXCEPTION())
    {
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
    }
    else
    {
<(ruleDescriptor.actions.after):execAfter()>
    }
<else>
<if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
    <else>
        if (HASEXCEPTION())
        {
            PREPORTERROR();

```



```

        PRECOVER();
        <@setErrorReturnValue()>
    }
    <if(ruleDescriptor.actions.after)>
    else
    {
        <(ruleDescriptor.actions.after):execAfter()>
    }<\n>
    <endif>
<endif>
<endif>
<endif>

    <if(trace)>ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed,
BACKTRACKING);<endif>
    <memoize()>
<if(finally)>
    <finalCode(finalBlock=finally)>
<endif>
    <scopeClean()>
    <@postamble()>
    return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
    <finalBlock>
}

>>

catch(decl,action) ::= <<
/* catch(decl,action)
*/
{
    <e.action>
}

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval;<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;

```

```

}>
<endif>
<if(memoize)>
ANTLR3_UINT32 <ruleDescriptor.name>_StartIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
*/
<if(memoize)>
<ruleDescriptor.name>_StartIndex = INDEX();<\n>
<endif>
<ruleDescriptor.useScopes:{<scopeTop(sname=it)> = <scopePush(sname=it)>;}; separator="\n">
<ruleDescriptor.ruleScope:{<scopeTop(sname=it.name)> = <scopePush(sname=it.name)>;}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType> <it.label.text>;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
>>

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelInitVal(label=it); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;<\n>
<endif>
<endif>
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,

```

```

ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels: {ANTLR3_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

```

```

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

```

```

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {list_<it.label.text>->free(list_<it.label.text>);}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>

```

```

>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( BACKTRACKING>0 ) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes: {<scopePop(sname=it)>}; separator="\n">
<ruleDescriptor.ruleScope: {<scopePop(sname=it.name)>}; separator="\n">

>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 *
 * $ANTLR start <ruleName>
 *
 * Looks to match the characters the constitute the token <ruleName>
 * from the attached input stream.
 *
 * \remark
 * - lexer->error == ANTLR3_TRUE if an exception was thrown.
 */
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,

```

```

<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>
{
  ANTLR3_UINT32 _type;
  <ruleDeclarations()>
  <ruleDescriptor.actions.declarations>
  <lexerRuleLabelDefs()>
  <if(trace)>System.out.println("enter <ruleName> '"+(char)LA(1)+"'
line="+GETLINE()+":"+GETCHARPOSITIONINLINE()+ " failed="+failed+"
backtracking="+BACKTRACKING);<endif>

<if(nakedBlock)>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit()>
  <ruleDescriptor.actions.init>

  <block><\n>
<else>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit()>
  _type = <ruleName>;

  <ruleDescriptor.actions.init>

  <block>
  LEXSTATE->type = _type;
<endif>
  <if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking
=%d\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);<endif>
  <ruleCleanup()>
  <lexerRuleLabelFree()>
  <(ruleDescriptor.actions.after):execAfter()>
  <memoize>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
static void
mTokens(p<name> ctx)
{
  <block><\n>

```

```

    goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
    <@postbranch()>
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
    // <fileName>:<description>

    ANTLR3_UINT32 alt<decisionNumber>;

    alt<decisionNumber>=<maxAlt>;

    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>

```

```

<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
{
    int cnt<decisionNumber>=0;
    <decls>
    <@preloop()>

    for (;)
    {
        int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
        <alts:altSwitchCase()>
        default:

    if ( cnt<decisionNumber> >= 1 )
    {
        goto loop<decisionNumber>;
    }
    <ruleBacktrackFailure()>
    <earlyExitEx()>
    <@earlyExitException()>
    goto rule<ruleDescriptor.name>Ex;
    }
    cnt<decisionNumber>++;
    }
    loop<decisionNumber>; /* Jump to here if this rule does not match */
    <@postloop()>

```

```

}
>>

earlyExitEx() ::= <<
/* mismatchedSetEx()
*/
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<\n>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<

// <fileName>:<description>
<decls>

<@preloop()>
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    default:
        goto loop<decisionNumber>; /* break out of the loop */
        break;
    }
}
loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

```



```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i>:
  <@prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
  <@declarations()>
  <@initializations()>
  <elements:element()>
  <rew>
  <@cleanup()>
}
>>

// E L E M E N T S
/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> = (<labelType>)<endif> MATCHT(<token>,
&FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```

```

listLabel(label,elem) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <elem>, NULL);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHRANGE(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= LA(1);<\n>
<else>
<label>=(<labelType>)LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
    CONSUME();
    <postmatchCode>
<if(!LEXER)>
    PERRORRECOVERY=ANTLR3_FALSE;
<endif>
    <if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<\n><endif>
}
else
{
    <ruleBacktrackFailure()>
}

```

```

    <mismatchedSetEx()>
    <@mismatchedSetException()>
<if(LEXER)>
    LRECOVER();
<else>
    RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
    goto rule<ruleDescriptor.name>Ex;
}<\n>
>>

```

```

mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name      = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
<label>Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>

```

```

MATCHANYT();
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHANY();
<checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_rule.name_in_ruleName<elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()>-><endif><rule.name>(ctx<if(scope)>-
><scope:delegateName()><endif><if(args)>, <args; separator=","><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */

```

```

lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
  ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
  <if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=", ">;
  <checkRuleBacktrackFailure()->
  <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
  <label>->setType(<label>, ANTLR3_TOKEN_INVALID);
  <label>->setStartIndex(<label>, <label>Start<elementIndex>);
  <label>->setStopIndex(<label>, GETCHARINDEX()-1);
  <label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=", ">;
<checkRuleBacktrackFailure()->
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
  ANTLR3_UINT32 <label>Start<elementIndex>;
  <labelType> <label>;
  <label>Start<elementIndex> = GETCHARINDEX();
  MATCHC(ANTLR3_CHARSTREAM_EOF);
  <checkRuleBacktrackFailure()->
  <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
  <label>->setType(<label>, ANTLR3_TOKEN_EOF);
  <label>->setStartIndex(<label>, <label>Start<elementIndex>);
  <label>->setStopIndex(<label>, GETCHARINDEX()-1);
  <label>->input = INPUT->tstream->istream;
}
<else>
  MATCHC(ANTLR3_CHARSTREAM_EOF);
  <checkRuleBacktrackFailure()->
  <endif>
>>

```

```

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/

```

```

validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> )
{
    <ruleBacktrackFailure()>
    <newFPE(...)>
}
>>

```

```

newFPE() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type      = ANTLR3_FAILED_PREDICATE_EXCEPTION;
    EXCEPTION->message   = (void *)"<description>";
    EXCEPTION->ruleName  = (void *)"<ruleName>";
    <\n>
>>

```

```

// F i x e d D F A (if-then-else)

```

```

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
    else

```

```

{
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>

    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;

<endif>
}
}
>>

newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message   = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state     = <stateNumber>;
<@noViableAltException()>
<\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a)* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls() ::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{

```

```

/* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
*/
int LA<decisionNumber>_<stateNumber> = LA(<k>);
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
<edges; separator="\n">

default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>
goto rule<ruleDescriptor.name>Ex;<\n>

```



```

<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k> )
{
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k> )
{
    <edges; separator="\n"><\n>
    <if(eotPredictsAlt)>
    default:
        alt<decisionNumber>=<eotPredictsAlt>;
        break;<\n>
    <endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
    <targetState>
}
    break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
 * which are then used to statically initialize the dfa structure, which means that there
 * is no runtime initialization whatsoever, other than anything the C compiler might
 * need to generate. In general the C compiler will lay out memory such that there is no
 * runtime code required.

```

```

*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
* <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
{
<dfa.accept; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
{
<dfa.special; wrap="\n", separator=", ", null="-1">
};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator=", ", wrap="\n", null="-1">
};}; null = "">

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref>]; separator=", ", wrap="\n", null="_empty">
};

<if(dfa.specialStateSTs)>

```

```

static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer,
pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
    ANTLR3_INT32 _s;

    _s = s;
    switch (s)
    {
        <dfa.specialStateSTs:{state |
        case <i0>:

            <state>}; separator="\n">
        }
        <if(backtracking)>
            if (BACKTRACKING > 0)
            {
                FAILEDFLAG = ANTLR3_TRUE;
                return -1;
            }
        <endif>

        CONSTRUCTEX();
        EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
        EXCEPTION->message = (void *)"<dfa.description>";
        EXCEPTION->decisionNum = <dfa.decisionNumber>;
        EXCEPTION->state = _s;
        <@noViableAltException()>
        return -1;
    }
    <endif>

    <@errorMethod()>

    /* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
    */
    static
    ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber>
    = {
        <dfa.decisionNumber>, /* Decision number of this dfa */
        /* Which decision this represents: */
        (const pANTLR3_UCHAR)"<dfa.description>",
        <if(dfa.specialStateSTs)>
            (CDFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
        <else>
            (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition function */
        <endif>

        antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
    }
}

```

```

    antlr3dfapredict, /* DFA simulator function is in the runtime */
    dfa<dfa.decisionNumber>_eot, /* EOT table */
    dfa<dfa.decisionNumber>_eof, /* EOF table */
    dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>_accept, /* Accept table */
    dfa<dfa.decisionNumber>_special, /* Special transition states */
    dfa<dfa.decisionNumber>_transitions /* Table of transition tables */

};
/* End of Cyclic DFA <dfa.decisionNumber>
* -----
*/
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
    ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<\n>
    ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<\n>

    LA<decisionNumber>_<stateNumber> = LA(1);<\n>
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    index<decisionNumber>_<stateNumber> = INDEX();<\n>
    REWINDLAST();<\n>
    <endif>
    s = -1;
    <edges; separator="\nelse ">
    <if(semPredState)> <! return input cursor to state before we rewound !>
    SEEK(index<decisionNumber>_<stateNumber>);<\n>
    <endif>
    if ( s>=0 )
    {
    return s;
    }
}
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
    s = <targetStateNumber>;

```

```

}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "( (<left> ) && (<right> ) )"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{ o | |(<o>)}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)> )"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>(ctx)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((LA<decisionNumber>_<stateNumber> \>= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) \>= <lower>)
&& (LA(<k>) \<= <upper>))"

setTest(ranges) ::= "<ranges; separator='\" || \">"

// A T T R I B U T E S

makeScopeSet() ::= <<
/* makeScopeSet()
 */
/** Definition of the <scope.name> scope variable tracking
 * structure. An instance of this structure is created by calling
 * <name>_<scope.name>Push().
 */

```

```

typedef struct <scopeStruct(sname=scope.name,...)>_struct
{
    /** Function that the user may provide to be called when the
     * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
     *
     * \param POinter to an instance of this typedef/struct
     */
    void (ANTLR3_CDECL *free) (struct <scopeStruct(sname=scope.name,...)>_struct * frame);

    /* =====
     * Programmer defined variables...
     */
    <scope.attributes:{<it.decl>;}; separator="\n">

    /* End of programmer defined variables
     * =====
     */
}
<scopeStruct(sname=scope.name,...)>, * <scopeType(sname=scope.name,...)>;

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::=
<<
/* globalAttributeScopeFuncDecl(scope)
*/
<if(scope.attributes)>
/* -----
* Function declaration for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);

```

```

/* ----- */

<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
    >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}
<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope)
*/
/* -----
* Function declarations for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

<endif>
>>

```

```

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name,...)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function,then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
    >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}

<endif>
>>

globalAttributeScopeDef(scope) ::=
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>_limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)>
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

```



```

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope)
*/
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

ruleAttributeScope(scope) ::=
<<

```

```

<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>
globalAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

ruleAttributeScopeFree(scope) ::=
<<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<
p<name>_<sname>Push

```

```
>>
```

```
scopeType(sname) ::= <<  
p<name>_<sname>_SCOPE  
>>
```

```
scopeStruct(sname) ::= <<  
<name>_<sname>_SCOPE  
>>
```

```
scopeStack(sname) ::= <<  
p<name>_<sname>Stack  
>>
```

```
attributeFuncs(scope) ::= <<  
<if(scope.attributes)>  
/* attributeFuncs(scope)  
*/
```

```
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)  
{  
    ANTLR3_FREE(scope);  
}
```

```
/** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and  
*     add it to the top of the stack.
```

```
*
```

```
* \remark
```

```
* By default the structure is freed with ANTLR_FREE(), but you can use the
```

```
* the \@init action to install a pointer to a custom free() routine by
```

```
* adding the code:
```

```
* \code
```

```
* <scopeTop(sname=scope.name)>->free = myroutine;
```

```
* \endcode
```

```
*
```

```
* With lots of comments of course! The routine should be declared in
```

```
* \@members { } as:
```

```
* \code
```

```
* void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
```

```
* \endcode
```

```
*
```

```
* It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
```

```
* NB: It should not free the pointer it is given, which is the scope stack entry itself
```

```
* and will be freed by the function that calls your custom free routine.
```

```
*
```

```
*/
```

```
static <scopeType(sname=scope.name)>  
<scopePushName(sname=scope.name)>(p<name> ctx)
```

```

{
/* Pointer used to create a new set of attributes
*/
<scopeType(sname=scope.name)>    newAttributes;

/* Allocate the memory for a new structure if we need one.
*/
if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-
-><scopeStack(sname=scope.name)>_limit)
{
    // The current limit value was less than the number of scopes available on the stack so
    // we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
    // is one less than that, or conveniently, the current value of limit.
    //
    newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-
-><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>_limit);
}
else
{
    // Need a new allocation
    //
    newAttributes = (<scopeType(sname=scope.name)>)
    ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
    if (newAttributes != NULL)
    {
        /* Standard ANTLR3 library implementation
        */
        ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes,
(void (*)(void *))<scope.name>Free);
    }
}

// Blank out any previous free pointer, the user might or might install a new one.
//
newAttributes->free = NULL;

// Indicate the position in the available stack that the current level is at
//
ctx-><scopeStack(sname=scope.name)>_limit++;

/* Return value is the pointer to the new entry, which may be used locally
* without de-referencing via the context.
*/
return newAttributes;
}<\n>

<endif>
>>

```

```

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
>>

/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "0".
 */
initValue(typeName) ::= <<
<cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
#undef RETURN_TYPE_<label.label.text>

```

```

#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)><\n>
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
<if(label.referencedRule.hasSingleReturnValue)>
<label.label.text> = <initValue(label.referencedRule.singleValueReturnType)>;
<endif>
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
 */
pANTLR3_COMMON_TOKEN start;
pANTLR3_COMMON_TOKEN stop;
<else>
<recognizer.ASTLabelType> start;
<recognizer.ASTLabelType> stop;
<endif>
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{<it.decl>;}; separator="\n">
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;<\n><\n>
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>";

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1) )-><attr.name>
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index> ) ) )-><attr.name>
<else>
(SCOPE_TOP(<scope>))-><attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1) )-><attr.name> = <expr>;
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index> ) ) )-><attr.name> = <expr>;
<else>
(SCOPE_TOP(<scope>))-><attr.name>=<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>0) && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>

```

```

<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "<scope>->getText(<scope>)"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>->getType(<scope>)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>->getLine(<scope>)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>->getCharPositionInLine(<scope>)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>->getChannel(<scope>)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>->getTokenIndex(<scope>)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>->tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>->getText(<scope>->toInt32(<scope>->getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>->getType(<scope>)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>->getLine(<scope>)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>->getCharPositionInLine(<scope>)"

```



```

lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>->getChannel(<scope>)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>->getTokenIndex(<scope>)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>->getText(<scope>)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR-
>getTokenStopIndex(ADAPTOR, retval.start))
<else>
STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->getCharIndex(LEXER)-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>";

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= <<
{
  <action>
}
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>

```

```

if ( <actions.(actionScope).synpredgate> )
{
    <action>
}
<else>
if ( BACKTRACKING == 0 )
{
    <action>
}
<endif>
<else>
{
    <action>
}
<endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(name, words64) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD <name>_bits[] = { <words64:{ANTLR3_UINT64_LIT(<it>)}; separator=", "> };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)> };
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);<\n>
>>

codeFileExtension() ::= ".c"

true() ::= "ANTLR3_TRUE"
false() ::= "ANTLR3_FALSE"

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/C/C.stg
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):

- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/CSharpTarget.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/CSharp2Target.java

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* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/ObjC/AST.stg

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*/

/** Templates for building ASTs during tree parsing.

*

- * Deal with many combinations. Dimensions are:
- * Auto build or rewrite
- * no label, label, list label (label/no-label handled together)
- * child, root
- * token, set, rule, wildcard

```

*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _last;<\n>
<ASTLabelType> _first_0;<\n>
>>

/** Add a variable to track last element matched */
ruleInitializations() ::= <<
<super.ruleInitializations()>
_last = NULL;<\n>
_first_0 = NULL;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR,
ADAPTOR->getParent(ADAPTOR, retval.tree) ) )
{
    retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
}
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)LT(1);
{
<ASTLabelType> _save_last_<treeLevel>;
<ASTLabelType> _first_<treeLevel>;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel>;
<endif>

```

```

_save_last_<treeLevel> = _last;
_first_<treeLevel> = NULL;
<if(!rewriteMode)>
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<if(backtracking)>}<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

```

```
// TOKEN AST STUFF
```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */

```

```

tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
>>

```

```
/** ID auto construct */
```

```

tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
<if(backtracking)>}<endif>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.wildcard(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);

```



```

<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)><endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
<else>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
<endif>
<if(backtracking)><endif>
}>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<super.listLabelAST(elem=label,...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_<treeLevel> =
(<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
<endif>
}>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<super.listLabelAST(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */

```

```

ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefTrackAndListLabel(...)>
>>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  <hetero>New(stream_<token>->nextNode(stream_<token>))
  <else>
  stream_<token>->nextNode(stream_<token>)
  <endif>
>>

ruleCleanup() ::= <<
  <super.ruleCleanup(...)>
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {<\n>
  <endif>
  <if(!ruleDescriptor.isSynPred)>
  retval.stop = LT(-1);<\n>
  <endif>
  retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
  <if(backtracking)>
  }
  <endif>
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">

```

```
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
```

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```
*/
```

```
/** Template overrides to add debugging to normal Java output;
```

```
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
```

```
*/
```

```
group Dbg;
```

```
@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports()>
```

```
using Antlr.Runtime.Debug;
```

```

using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames = new string[] {
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
};<\n>
<endif>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
    private int ruleLevel = 0;
    public int RuleLevel {
    get { return ruleLevel; }
    }
    public void IncRuleLevel() { ruleLevel++; }
    public void DecRuleLevel() { ruleLevel--; }
<if(profile)>
    <ctorForProfilingRootGrammar(>
<else>
    <ctorForRootGrammar(>
<endif>
<ctorForPredefinedListener(>
<else> <! imported grammar !>
    public int RuleLevel {
    get { return <grammar.delegators:{g| <g.delegateName(>>}.RuleLevel; }
    }
    public void IncRuleLevel() { <grammar.delegators:{g| <g.delegateName(>>}.IncRuleLevel(); }
    public void DecRuleLevel() { <grammar.delegators:{g| <g.delegateName(>>}.DecRuleLevel(); }
    <ctorForDelegateGrammar(>
<endif>
<if(profile)>
override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
override public void Memoize(IIntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected bool EvalPredicate(bool result, string predicate)
{

```

```

    dbg.SemanticPredicate(result, predicate);
    return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input)
    : this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state)
    : base(input, state) {
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>}>);}; separator="\n">
    <@finally()>
}<\n>
>>

@parserCtorBody.initializeCyclicDFAs() ::= <<
InitializeCyclicDFAs(dbg);
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}

public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)
    : base(input, dbg, state) {
    Profiler p = (Profiler)dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegates:{g|,
<g:delegateName()>}>);}; separator="\n">
    <@finally()>
}
<\n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<

```

```

public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>)
    : base(input, dbg, state) {
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegates:{g|,
<g.delegateName()>}>);}; separator="\n">
    }<\n>
>>

```

```

ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
    : <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
<if(profile)>
    Profiler p = (Profiler)dbg;
    p.setParser(this);
<endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g.delegateName()>}>);}; separator="\n">
    <@finally()>
    }<\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, null);
<endif>
DebugListener = proxy;
try
{
    proxy.Handshake();
}
catch (IOException ioe)
{
    ReportError(ioe);
}
>>

```

```

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

```

```

@rule.preamble() ::= <<
try {
    dbg.EnterRule(GrammarFileName, "<ruleName>");
    if ( RuleLevel==0 ) {dbg.Commence();}
    IncRuleLevel();
}

```

```

dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
>>

@lexer.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@lexer.debugAddition() ::= ", dbg"

@genericParser.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@genericParser.debugAddition() ::= ", dbg"

@rule.postamble() ::= <<
dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
}
finally {
  dbg.ExitRule(GrammarFileName, "<ruleName>");
  DecRuleLevel();
  if ( RuleLevel==0 ) {dbg.Terminate();}
}<\n>
>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
  "try { dbg.EnterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
  "} finally { dbg.ExitSubRule(<decisionNumber>); }<\n>"

enterDecision() ::=
  "try { dbg.EnterDecision(<decisionNumber>);<\n>"

exitDecision() ::=
  "} finally { dbg.ExitDecision(<decisionNumber>); }<\n>"

enterAlt(n) ::= "dbg.EnterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

```

```

@ruleBlock.predecision() ::= "<enterDecision(>"

@ruleBlock.postdecision() ::= "<exitDecision(>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule(>"

@positiveClosureBlock.postloop() ::= "<exitSubRule(>"

@positiveClosureBlock.predecision() ::= "<enterDecision(>"

@positiveClosureBlock.postdecision() ::= "<exitDecision(>"

@positiveClosureBlock.earlyExitException() ::=
    "dbg.RecognitionException(eee<decisionNumber>);<\n>"

@closureBlock.preloop() ::= "<enterSubRule(>"

@closureBlock.postloop() ::= "<exitSubRule(>"

@closureBlock.predecision() ::= "<enterDecision(>"

@closureBlock.postdecision() ::= "<exitDecision(>"

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
    "dbg.Location(<it.line>,<it.pos>);"

@matchSet.mismatchedSetException() ::=
    "dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::=
    "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

dfaDecision(decisionNumber,description) ::= <<
try
{
    isCyclicDecision = true;
    <super.dfaDecision(...>
}
catch (NoViableAltException nvae)

```



```

{
    dbg.RecognitionException(nvae);
    throw nvae;
}
>>

@cyclicDFA.dbgCtor() ::= <<
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer)
    {
        this.dbg = dbg;
    }
>>

@cyclicDFA.debugMember() ::= <<
    IDebugEventListener dbg;

>>

@cyclicDFA.errorMethod() ::= <<
    public override void Error(NoViableAltException nvae)
    {
        dbg.RecognitionException(nvae);
    }
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
    EvalPredicate(<pred>,"<description>")
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp/Dbg.stg

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*/

```
group Perl5 implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules  
* and cyclic DFAs plus support code.  
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals) ::=
```

```
<<
```

```
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>  
<actions.(actionScope).header>
```

```
<@imports>
```

```
<if(TREE_PARSER)>
```

```
<endif>
```

```
<if(backtracking)>
```

```
<endif>
```

```
<@end>
```

```
<docComment>
```

```
<recognizer>
```

```
>>
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",  
       filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<  
package <name>;  
use ANTLR::Runtime::Class;
```

```

use Carp;
use English qw( -no_match_vars );
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

extends 'ANTLR::Runtime::Lexer';

use constant {
    HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN
};

use constant {
    <tokens:{ <it.name> => <it.type>, }; separator="\n">
};
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

sub BUILD {
    my ($self, $arg_ref) = @_ ;

    $self->init_dfas();
}

sub get_grammar_file_name {
    return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{ p | <lexerSynpred(p)>}>

<cyclicDFAs:{ dfa | has 'dfa<dfa.decisionNumber>'; }; separator="\n">

sub init_dfas {
    my ($self) = @_ ;

    <cyclicDFAs:{ dfa |
    $self->dfa<dfa.decisionNumber>(<name::DFA<dfa.decisionNumber>->new({ recognizer => $self }));
    }; separator="\n">

    return;
}

```

```

}

<cyclicDFAs:cyclicDFA(> <! dump tables for all DFA !>

1;

>>

perlTypeInitMap ::= [
"$":"undef",
"@":"()",
"%":"()",
default:"undef"
]

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
text = null;
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !>
            failed=false;
            mTokens();
            backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            }
            else {
                emit();
                return token;
            }
        }
    }
}

```

```

    }
  }
  catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
  }
}
}

public void memoize(IntStream input,
  int ruleIndex,
  int ruleStartIndex)
{
  if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
  if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
  return false;
}
>>

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, inputStreamType, superClass, filterMode,
  ASTLabelType="Object", labelType, members) ::= <<
package <name>;
use ANTLR::Runtime::Class;

use English qw( -no_match_vars );
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

extends '<@superClassName><superClass><@end>';

Readonly my $token_names => [
  "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
];

use constant {
  <tokens:{ <it.name> => <it.type>, }; separator="\n">

```

```

};

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
                words64=it.bits)>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, $arg_ref) = @_ ;

<if(backtracking)>
    $self->state->rule_memo({});<\n>
<endif>
}
<@end>

sub get_token_names {
    return $token_names;
}

sub get_grammar_file_name {
    return "<fileName>";
}

<members>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>->new($self);};
separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

1;
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input

```

```

* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>

<if(trace)>
$Self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
eval {
    <block>
};
$Self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
}
<else>
    <block>
<endif>
}
# $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {
    backtracking++;
    <@start()>
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !failed;

```

```

    input.rewind(start);
    <@stop()>
    backtracking--;
    failed=false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if ($self->state->failed) {
    return <ruleReturnValue()>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) { failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
    my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_ ;
    <if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>

```



```

<@preamble()>
eval {
  <ruleMemoization(name=ruleName)>
  <block>
  <ruleCleanUp()>
  <(ruleDescriptor.actions.after):execAction()>
};
<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  my $exception = $EVAL_ERROR;
  if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
    $self->report_error($exception);
    $self->recover($self->input, $exception);
    $exception = undef;
  }<\n>
<endif>
<endif>
<endif>
  <if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
  if ($exception) {
    croak $exception;
    # $exception->rethrow();
  }
  <@postamble()>
  return <ruleReturnValue()>;
}
# $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
my $retval = <returnType()>->new();
$retval->set_start($self->input->LT(1));<\n>
<else>

```

```

<ruleDescriptor.returnScope.attributes:{ a |
my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
my $<ruleDescriptor.name>_start_index = $self->input->index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {my $<it.label.text> = undef;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{||RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{my $<it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>

```

```

$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_ ;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
my $_type = <ruleName>;
my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanup()>

```

```

    $self->state->type($_type);
    $self->state->channel($_channel);
    <ruleDescriptor.actions.after>;execAction()>
<endif>
};
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>

if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
}
}
# $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
    my ($self) = @_;
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>

```

```

<decision>
<@postdecision()>
switch ($alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $cnt<decisionNumber> = 0;
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
  my $alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
  }
  else {
    if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
    <ruleBacktrackFailure()>
    my $eee =
      ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
    <@earlyExitException()>
    croak $eee;
  }
}
}

```

```

    ++$cnt<decisionNumber>;
}
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

```

<<
# <fileName>:<description>
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
        <alts:altSwitchCase()>
        else { last LOOP<decisionNumber> }
    }
}
<@postloop()>
>>

```

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation

* so we can just use the normal block template

*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative

* number. A DFA predicts the alternative and then a simple switch

* does the jump to the code that actually matches that alternative.

*/

altSwitchCase() ::= <<

```

case <i> {
    <@prealt()>
    <it>
}<\n>
>>

```

/** An alternative is just a list of elements; at outermost level */

```

alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
# <fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

```

```

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/

```

```

noRewrite(rewriteBlockLevel, treeLevel) ::= ""

```

```

// E L E M E N T S

```

```

/** Dump the elements one per line */

```

```

element() ::= <<
<@prematch()>
<it.el><\n>
>>

```

```

/** match a token optionally with a label in front */

```

```

tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>$<label> =<endif>$self->match($self->input, <token>,
$FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

```

```

/** ids+=ID */

```

```

tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```

```

listLabel(label,elem) ::= <<

```

```

if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

```

```

/** match a character */

```

```

charRef(char,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
$self->match(<char>); <checkRuleBacktrackFailure()>
>>

```

```

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= $self->input->LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> ) {
    $self->input->consume();
    <postmatchCode>
<if(!LEXER)>
    $self->state->error_recovery(0);
<endif>
    <if(backtracking)>failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    my $mse =
        ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
    <@mismatchedSetException()>
<if(LEXER)>
    $self->recover($mse);
    $mse->throw();
<else>
    $mse->throw();
    <! use following code to make it recover inline; remove throw mse;
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>

```



```
>>
```

```
/** Match a string literal */
```

```
lexerStringRef(string,label) ::= <<
```

```
<if(label)>
```

```
int <label>Start = getCharIndex();
```

```
$self->match(<string>); <checkRuleBacktrackFailure()>
```

```
<labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
```

```
Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
```

```
<else>
```

```
$self->match(<string>); <checkRuleBacktrackFailure()><\n>
```

```
<endif>
```

```
>>
```

```
wildcard(label,elementIndex) ::= <<
```

```
<if(label)>
```

```
<label>=(<labelType>)input.LT(1);<\n>
```

```
<endif>
```

```
matchAny(input); <checkRuleBacktrackFailure()>
```

```
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<
```

```
<wildcard(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match . wildcard in lexer */
```

```
wildcardChar(label, elementIndex) ::= <<
```

```
<if(label)>
```

```
<label> = $self->input->LA(1);<\n>
```

```
<endif>
```

```
matchAny(); <checkRuleBacktrackFailure()>
```

```
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
```

```
<wildcardChar(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
```

```
* and a return value or values.
```

```
*/
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```

```
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
```

```
<if(label)>
```

```
$<label> = $self-><rule.name>(<args; separator=", ">);<\n>
```

```
<else>
```

```
$self-><rule.name>(<args; separator=", ">);<\n>
```

```

<endif>
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule>(<args; separator=" ">); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
$self->m_<rule.name>(<args; separator=" ">); <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,

```

```

    enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
else {
<if(eotPredictsAlt)>
    $alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    my $nvae =
        ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => "<description>",
            decision_number => <decisionNumber>,
            state_number => <stateNumber>,
            input => $self->input,
        });<\n>
    <@noViableAltException()>
    croak $nvae;<\n>
<endif>
}
>>

```

```

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls"><\n>
<if(eotPredictsAlt)>
<if(!edges)>
$alt<decisionNumber> = <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    $alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>";

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {
    <targetState>
}
>>

```

```

// F i x e d D F A (switch case)

```

```

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().

```

```

*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k> ) ) {
    <edges; separator="\n">
    else {
        <if(eotPredictsAlt)>
            $alt<decisionNumber> = <eotPredictsAlt>;
        <else>
            <ruleBacktrackFailure()>
            my $nvae =
                ANTLR::Runtime::NoViableAltException->new({
                    grammar_decision_description => "<description>",
                    decision_number => <decisionNumber>,
                    state_number => <stateNumber>,
                    input => $self->input,
                });<\n>
            <@noViableAltException()>
            croak $nvae;<\n>
        <endif>
    }
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k> ) ) {
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k> ) ) {
    <edges; separator="\n"><\n>
    <if(eotPredictsAlt)>
    else { $alt<decisionNumber> = <eotPredictsAlt> }<\n>
    <endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case [<labels: { <it> }; separator=", ">] { <targetState> }
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>->predict($self->input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOT; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOF; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMin; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMax; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedAccept; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedSpecial; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_transition => [
<dfa.javaCompressedTransition:{s|ANTLR::Runtime::DFA->unpack_rle([ <s; separator=", "> ])}; separator=", "> ];

{
package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;

use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';

sub BUILD {
my $self = shift;
my $param_ref = __PACKAGE__->unpack_params(@_, {
spec => [
{
name => 'recognizer',
isa => 'ANTLR::Runtime::BaseRecognizer'
},
]
});
}
}

```

```

$self->recognizer($param_ref->{recognizer});
$self->decision_number(<dfa.decisionNumber>);
$self->eot($DFA<dfa.decisionNumber>_eot);
$self->eof($DFA<dfa.decisionNumber>_eof);
$self->min($DFA<dfa.decisionNumber>_min);
$self->max($DFA<dfa.decisionNumber>_max);
$self->accept($DFA<dfa.decisionNumber>_accept);
$self->special($DFA<dfa.decisionNumber>_special);
$self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
    return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
    my ($self, $param_ref) = unpack_params(@_, {
        spec => [
            {
                name => 's',
                type => SCALAR,
            },
            {
                name => 'input',
                isa => 'ANTLR::Runtime::IntStream',
            }
        ]
    });
    my $s = $param_ref->{s};
    my $input = $param_ref->{input};

    switch ($s) {
        <dfa.specialStateSTs:{state |
        case <i0> \{ <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">
        }
    }

<if(backtracking)>
    if ($self->state->backtracking > 0) {
        $self->state->failed = 1;
        return -1;
    }<\n>
<endif>

```

```

my $nvae =
    ANTLR::Runtime::NoViableAltException->new({
        grammar_decision_description => $self->get_description(),
        decision_number => <dfa.decisionNumber>,
        state_number => $s,
        input => $input,
    });<\n>
    $self->error($nvae);
    $nvae->throw();
} <\n>
<endif>
} <\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
my $input = $self->input;
my $LA<decisionNumber>_<stateNumber> = $input->LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
my $index<decisionNumber>_<stateNumber> = $input->index();
$input->rewind();<\n>
<endif>
s = -1;
<edges; separator="\nls">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>; }<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

```


// D F A E X P R E S S I O N S

```
andPredicates(left,right) ::= "<left> && <right>"
```

```
orPredicates(operands) ::= "<first(operands)><rest(operands):{o | ||<o>}>"
```

```
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
```

```
evalPredicate(pred,description) ::= "<pred>"
```

```
evalSynPredicate(pred,description) ::= "<pred>()"
```

```
lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"
```

```
/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
```

```
* somewhere. Must ask for the lookahead directly.
```

```
*/
```

```
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"
```

```
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
```

```
($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>
```

```
>>
```

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "$self->input->LA(<k>) ge  
<lower> && $self->input->LA(<k>) le <upper>"
```

```
setTest(ranges) ::= "<ranges; separator=\\ || \\>"
```

// A T T R I B U T E S

```
globalAttributeScope(scope) ::= <<
```

```
<if(scope.attributes)>
```

```
protected static class <scope.name>_scope {
```

```
    <scope.attributes:{<it.decl>;}; separator="\n">
```

```
}
```

```
protected Stack <scope.name>_stack = new Stack();<\n>
```

```
<endif>
```

```
>>
```

```
ruleAttributeScope(scope) ::= <<
```

```
<if(scope.attributes)>
```

```
protected static class <scope.name>_scope {
```

```
    <scope.attributes:{<it.decl>;}; separator="\n">
```

```
}
```

```
protected Stack <scope.name>_stack = new Stack();<\n>
```

```
<endif>
```

```
>>
```

```

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "undef".
 */
initValue(typeName) ::= <<
<if(typeName)>
<perlTypeInitMap.(typeName)>
<else>
undef
<endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
{
  package <returnType>;
  use ANTLR::Runtime::Class;

  extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<$<it.name>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */

```

```

isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
$<scope>.<attr.name>
<else>
$<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
$<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
$<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "$<scope>->get_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<

```

```

<if(TREE_PARSER)>
input.getTokenStream().toString(
  input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
  input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
<else>
substr($self->input, $<scope>->start, $<scope>->stop)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
  input.getTreeAdaptor().getTokenStartIndex(retval.start),
  input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error

```

```
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
```

```
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";
```

```
/** How to execute an action */
```

```
execAction(action) ::= <<
```

```
<if(backtracking)>
```

```
<if(actions.(actionScope).synpredgate)>
```

```
if ( <actions.(actionScope).synpredgate> ) {
```

```
<action>
```

```
}
```

```
<else>
```

```
if ( backtracking==0 ) {
```

```
<action>
```

```
}
```

```
<endif>
```

```
<else>
```

```
<action>
```

```
<endif>
```

```
>>
```

```
// M I S C (properties, etc...)
```

```
bitset(name, words64) ::= <<
```

```
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ]  
});<\n>
```

```
>>
```

```
codeFileExtension() ::= ".pm"
```

```
true() ::= "1"
```

```
false() ::= "0"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-  
jar/org/antlr/codegen/templates/Perl5/Perl5.stg
```

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

```
/*
```

```
[The "BSD licence"]
```

```
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```

```
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```

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```

*/
group ASTTreeParser;

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
{
  <ASTLabelType> root_<treeLevel> = [treeAdaptor newEmptyTree];
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
  if ( [input LA:1] == ANTLRTokenTypeDOWN ) {
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
  }
  <else>
  [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
  <children:element()>
  [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
  <endif>
  [root_<treeLevel> release];
}<\n>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(rewriteMode)>retval.tree = (<ASTLabelType>)retval.start;<endif>

```

>>

// TOKEN AST STUFF

/** ID auto construct */

```
tokenRef(token,label,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
>>
```

/** label+=TOKEN auto construct */

```
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>
```

/** ^(ID ...) auto construct */

```
tokenRefRuleRoot(token,label,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
>>
```

/** Match ^(label+=TOKEN ...) auto construct */

```
tokenRefRuleRootAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>
```

// RULE REF AST

/** rule auto construct */

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>adaptor.addChild(root_<treeLevel>, <label>.getTree());
>>
```

/** x+=rule auto construct */

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>
```



```

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```

```

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
#error Heterogeneous tree support not implemented.
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg

```

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```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/
```

```
group ST;
```

```
@outputFile.imports() ::= <<
<@super.imports(>
using Antlr3.ST;
using Antlr3.ST.Language;
>>
```

```
/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
public StringTemplate st;
public object getTemplate() { return st; }
public override string ToString() { return (st==null) ? null : st.ToString(); }
>>
```

```
@genericParser.members() ::= <<
<@super.members(>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );
```

```
public StringTemplateGroup TemplateLib
{
get { return templateLib; }
set { templateLib = value; }
}
```

```
/** allows convenient multi-value initialization:
// * "new STAttrMap().put(...).put(...)"
// */
//public static class STAttrMap extends HashMap {
// public STAttrMap put(String attrName, object value) {
// super.put(attrName, value);
```

```

// return this;
// }
// public STAttrMap put(String attrName, int value) {
// super.put(attrName, new Integer(value));
// return this;
// }
// }
//}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTemplate()",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).replace(
input.TreeAdaptor.GetTokenStartIndex(retval.start),
input.TreeAdaptor.GetTokenStopIndex(retval.start),
retval.st );
<else>
((TokenRewriteStream)input).replace(
((IToken)retval.start).TokenIndex,
input.LT(-1).TokenIndex,
retval.st );
<endif>
>>

rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>)

```

```

{
  retval.st = <it.alt>;
}<\n>
<else>
{
  retval.st = <it.alt>;
}<\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <<
templateLib.getInstanceOf("<name>"<if(args)>,
  new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
  <endif>)
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.getInstanceOf(<expr><if(args)>,
  new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
  <endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
  new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
  <endif>)
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).setAttribute("<attrName>",<expr>);

```

>>

```
/** Translate %{stringExpr} */  
actionStringConstructor(stringExpr) ::= <<  
new StringTemplate(templateLib,<stringExpr>  
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-  
jar/org/antlr/codegen/templates/CSharp3/ST.stg  
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```

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```
*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance  
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.  
*/  
group ASTDbg;
```

```
parserMembers() ::= <<  
protected DebugTreeAdaptor adaptor;  
public void setTreeAdaptor(TreeAdaptor adaptor) {
```

```

<if(grammar.grammarIsRoot)>
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
<else>
    this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif><\n>
    <grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(this.adaptor);}>
    }
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}<\n>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
    new DebugEventSocketProxy(this,port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
try {
    proxy.handshake();
}
catch (IOException ioe) {
    reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForProfilingRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);<\n>
<endif>

```

>>

```
@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-  
jar/org/antlr/codegen/templates/Java/ASTDbg.stg
```

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```
/*
```

```
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```

```
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```

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```
*/
```

```
group ASTDbg;
```

```
/*
```

```
parserMembers() ::= <<
```

```
protected TreeAdaptor adaptor =
```

```
    new DebugTreeAdaptor(dbg,new CommonTreeAdaptor());
```

```
public void setTreeAdaptor(TreeAdaptor adaptor) {
```

```
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
```

```
}
```

```
public TreeAdaptor getTreeAdaptor() {
```

```
    return adaptor;
```

```
}<\n>
```

```
>>
```

```
*/
```

```
@treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"
```

```
@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-  
jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
```

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```
/*
```

```
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```

```
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```

```
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```
Copyright (c) 2005 Terence Parr
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```
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```
*/
```

```
group CSharp implements ANTLRCore;
```

```
csharpTypeInitMap ::= [
```

```
  "int": "0",
```

```
  "uint": "0",
```

```
  "long": "0",
```



```

"ulong":"0",
"float":"0.0",
"double":"0.0",
"bool":"false",
"byte":"0",
"sbyte":"0",
"short":"0",
"ushort":"0",
"char":"char.MinValue",
default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@debugPreprocessor(>
<actions.(actionScope).header>

<@imports>
using System;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;

<if(backtracking)>
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
<endif>

<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>

```

```

{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
    filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end> {
    <tokens:{public const int <it.name> = <it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    public <grammar.recognizerName>() <! needed by subclasses !>
    {
    InitializeCyclicDFAs();
    }
    public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}>)
    : this(input, null<grammar.delegators:{g|, <g.delegateName()>}>) {
    }
    public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>}>)
    : base(input, state) {
    InitializeCyclicDFAs(); <! Necessary in C#??? Not removed yet. !>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new Hashtable[<numRules>+1];<\n> <! index from 1..n !>
    <endif>
    <endif>

    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>}>, this);}; separator="\n">
    <grammar.delegators:
        {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>

```

```

    }

    override public string GrammarFileName
    {
        get { return "<fileName>";}
    }

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;} separator="\n">
private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs()>)
{
    <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this<@debugAddition()>);} separator="\n">
    <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>}>
separator="\n">
}

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override public IToken NextToken()
{
    while (true)
    {
        if ( input.LA(1) == (int)CharStreamConstants.EOF )
        {
            return Token.EOF_TOKEN;
        }

        state.token = null;
        state.channel = Token.DEFAULT_CHANNEL;

```

```

state.tokenStartCharIndex = input.Index();
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
    int m = input.Mark();
    state.backtracking = 1; <! means we won't throw slow exception !>
    state.failed = false;
    mTokens();
    state.backtracking = 0;
<!
mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1.
!>
    if ( state.failed )
    {
        input.Rewind(m);
        input.Consume(); <! // advance one char and try again !>
    }
    else
    {
        Emit();
        return state.token;
    }
}
catch (RecognitionException re)
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}
}

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( state.backtracking > 1 )
        base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if ( state.backtracking>1 )
        return base.AlreadyParsedRule(input, ruleIndex);
    return false;
}
>>

```

```
actionGate() ::= "(state.backtracking==0)"
```

```
filteringActionGate() ::= "(state.backtracking == 1)"
```

```
/** How to generate a parser */
```

```
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,  
             bitsets, inputStreamType, superClass, filterMode,
```

```
             ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
```

```
public class <grammar.recognizerName> : <@superClassName><superClass><@end>
```

```
{
```

```
<if(grammar.grammarIsRoot)>
```

```
    public static readonly string[] tokenNames = new string[]
```

```
    {
```

```
        "\<invalid>",
```

```
        "\<EOR>",
```

```
        "\<DOWN>",
```

```
        "\<UP>",
```

```
        <tokenNames; separator=", \n">
```

```
    };<\n>
```

```
<endif>
```

```
<tokens:{public const int <it.name> = <it.type>;}; separator="\n">
```

```
// delegates
```

```
<grammar.delegates:
```

```
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
```

```
// delegators
```

```
<grammar.delegators:
```

```
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
```

```
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>
```

```
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
```

```
<@members>
```

```
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
```

```
public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>  
<g.delegateName()>}>>
```

```
: this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.delegateName()>}>)) {
```

```
}
```

```
public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState  
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
```

```
: base(input, state) {
```

```
    <parserCtorBody()>
```

```
    <grammar.directDelegates:
```

```
        {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
```

```
<p.delegateName()>}>, this);}; separator="\n">
```

```

    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}
separator="\n">
    <last(grammar.delegates):{g|gParent = <g:delegateName()>;}>
}
<@end>

override public string[] TokenNames {
get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
}

override public string GrammarFileName {
get { return "<fileName>"; }
}

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) //
throws RecognitionException
\{
    <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:
{a|<a.name>; separator=", ">;
\}); separator="\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;} separator="\n">
private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs()>)
{
    <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this<@debugAddition()>);} separator="\n">
    <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>;}
separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)>
}
>>

```

```

parserCtorBody() ::= <<
<@initializeCyclicDFAs>InitializeCyclicDFAs();<@end>
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Hashtable[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="IToken", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
    <ruleLabelDefs()>
<if(trace)>
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
        <block>
    }
    finally
    {
        TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
}

```

```

<else>
  <block>
<endif>
}
// $ANTLR end "<ruleName>"
>>

synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>

synpred(name) ::= <<
public bool <name>()
{
  state.backtracking++;
  <@start()>
  int start = input.Mark();
  try
  {
    <name>_fragment(); // can never throw exception
  }
  catch (RecognitionException re)
  {
    Console.Error.WriteLine("impossible: "+re);
  }
  bool success = !state.failed;
  input.Rewind(start);
  <@stop()>
  state.backtracking--;
  state.failed = false;
  return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( (state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>) )
{
  return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */

```



```

checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue(>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.backtracking > 0 ) {state.failed = true; return <ruleReturnValue(>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public <returnType(> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [1]
{
    <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp(>
    <ruleDeclarations(>
    <ruleLabelDefs(>
    <ruleDescriptor.actions.init>
    <@preamble(>
    try
    {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp(>
        <(ruleDescriptor.actions.after):execAction(>
    }
    <if(exceptions)>
        <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
    <else>
        catch (RecognitionException re)
        {
            ReportError(re);
            Recover(input,re);
        }
    <@setErrorReturnValue(>
    }<\n>
    <endif>

```

```

<endif>
<endif>
  finally
  {
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  }
  <@postamble()>
  return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.Start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.Push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.Push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,

```

```

ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
  :{<labelType> <it.label.text> = null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
  :{IList list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{I|<I:ruleLabelDef(label=it)> <I.label.text> = null;}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleLabels]
  :{<labelType> <it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
  :{IList list_<it.label.text> = null;}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = input.LT(-1);<\n>
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking > 0 )
{

```

```

Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex);
}
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [2]
{
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

```

```
/** How to generate code for the implicitly-defined lexer grammar rule
```

```
* that chooses between lexer rules.
```

```
*/
```

```
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
```

```
override public void mTokens() // throws RecognitionException
```

```
{
```

```
    <block><\n>
```

```
}
```

```
>>
```

```
// S U B R U L E S
```

```
/** A (...) subrule with multiple alternatives */
```

```
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```

```
// <fileName>:<description>
```

```
int alt<decisionNumber> = <maxAlt>;
```

```
<decls>
```

```
<@predecision()>
```

```
<decision>
```

```
<@postdecision()>
```

```
<@prebranch()>
```

```
switch (alt<decisionNumber>)
```

```
{
```

```
    <alts:altSwitchCase()>
```

```
}
```

```
<@postbranch()>
```

```
>>
```

```
/** A rule block with multiple alternatives */
```

```
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```

```
// <fileName>:<description>
```

```
int alt<decisionNumber> = <maxAlt>;
```

```
<decls>
```

```
<@predecision()>
```

```
<decision>
```

```
<@postdecision()>
```

```
switch (alt<decisionNumber>)
```

```
{
```

```
    <alts:altSwitchCase()>
```

```
}
```

```
>>
```

```
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
```

```
// <fileName>:<description>
```

```
<decls>
```

```
<@prealt()>
```

```
<alts>
```

```
<@postalt()>
```

>>

/** A special case of a (...) subrule with a single alternative */

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

/** A (..)+ block with 1 or more alternatives */

positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>

int cnt<decisionNumber> = 0;

<decls>

<@preloop()>

do

{

int alt<decisionNumber> = <maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>)

{

<alts:altSwitchCase()>

default:

if (cnt<decisionNumber> >= 1) goto loop<decisionNumber>;

<ruleBacktrackFailure()>

EarlyExitException eee<decisionNumber> =

new EarlyExitException(<decisionNumber>, input);

<@earlyExitException()>

throw eee<decisionNumber>;

}

cnt<decisionNumber>++;

} while (true);

loop<decisionNumber>:

; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements

<@postloop()>

>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

```

// <fileName>:<description>
<decls>
<@preloop()>
do
{
  int alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
    <alts:altSwitchCase()>
  default:
    goto loop<decisionNumber>;
  }
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

```

```
closureBlockSingleAlt ::= closureBlock
```

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */

```

```
optionalBlock ::= block
```

```
optionalBlockSingleAlt ::= block
```

```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */

```

```
altSwitchCase() ::= <<
```

```

case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>

```

```

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>

```

```

{
  <@declarations()>
  <elements:element()>

```

```

<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=(<labelType>)<endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex
>); <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> == null) list_<label> = new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>

```



```

MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery = false;
<endif>
<if(backtracking)>state.failed = false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>

```

```

int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<endif>
state.followingStackPointer--;

```

```

<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name><(<args; separator=",">);
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name><(<args; separator=",">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,

```

```

    enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1) == Token.DOWN )
{
    Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) )
{
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
        new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <@noViableAltException()>
    throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead

```

```

* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>) <endif>)
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().

```

```

*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> )
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
    break;
<else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
        new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <@noViableAltException()>
    throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> )
{
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> )
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber> = <eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: { case <it>: }; separator="\n">
{
    <targetState>
}
break;
>>

// C y c l i c D F A

```

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables.
*/
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap="+\n  \>";
const string DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap="+\n  \>";
const string DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap="+\n  \>";
const string DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap="+\n  \>";
const string DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap="+\n  \>";
const string DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap="+\n  \>}>";
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|<s; wrap="+\n  \>"}; separator=",\n">
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition =
DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
    <@debugMember(>
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
    {
        this.recognizer = recognizer;
    }
}

```

```

    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;

}
<@dbgCtor()>

override public string Description
{
    get { return "<dfa.description>"; }
}

<@errorMethod()>
}<\n>
<if(dfa.specialStateSTs)>

protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)
//throws NoViableAltException
{
    <if(LEXER)>
        IIntStream input = _input;
    <endif>
    <if(PARSER)>
        ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
        ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    switch ( s )
    {
        <dfa.specialStateSTs:{state |
            case <i0> : <! compressed special state numbers 0..n-1 !>
                <state>}; separator="\n">
    }
    <if(backtracking)>
        if (state.backtracking > 0) {state.failed = true; return -1;}<\n>
    <endif>
    NoViableAltException nvae<dfa.decisionNumber> =
        new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae<dfa.decisionNumber>);
    throw nvae<dfa.decisionNumber>;
}<\n>

```



```

<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index();
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s >= 0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>) <endif>) { s = <targetStateNumber>; }<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left> && <right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{o || <o>}>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

```

```

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> \>= <lower> && LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) \>=
<lower> && input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\" || \">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void

```

```

<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<csharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public class <ruleDescriptor.returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
{
<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
};

```

```

<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>} ; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name> = <expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)
<else>
<scope>
<endif>
>>

```

```

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

```

```

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
<endif>
>>

```

```

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

```

```

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

```

```

// not sure the next are the right approach

```

```

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope> != null) ? <scope>.TokenIndex : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

```

```

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope> != null) ? ((<labelType><scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope> != null) ? ((<labelType><scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope> != null) ? ((<ASTLabelType><scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<

```

```

<if(TREE_PARSER)>

```

```

((<scope> != null) ? input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)) : null)

```

```

<else>

```

```

((<scope> != null) ? input.ToString((IToken)<scope>.Start),(IToken)<scope>.Stop) : null)

```

```

<endif>

```

```

>>

```

```

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope> != null) ? <scope>.ST : null)"

```

```

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.Start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.Stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start) )
<else>
input.ToString((IToken)retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{

```

```
<action>
}
<else>
<action>
<endif>
>>
```

```
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"
```

```
// M I S C (properties, etc...)
```

```
bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[]{{<words64: {<it>UL};separator=",">}});<\n>
>>
```

```
codeFileExtension() ::= ".cs"
```

```
true() ::= "true"
```

```
false() ::= "false"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp/CSharp.stg
```

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

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2007-2008 Johannes Luber
```

```
Copyright (c) 2005-2007 Kunle Odutola
```

```
Copyright (c) 2005 Terence Parr
```

```
All rights reserved.
```

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*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
using Antlr.Runtime.Tree;<\n>
<endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected ITreeAdaptor adaptor = new CommonTreeAdaptor();<\n>
public ITreeAdaptor TreeAdaptor
{
    get { return this.adaptor; }
    set {
        this.adaptor = value;
        <grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
    }
}
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
private <ASTLabelType> tree;
override public object Tree
{
    get { return tree; }
    set { tree = (<ASTLabelType>) value; }
}
>>
```

```
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
```



```

>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

```

```

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/

```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.GetNilNode();<\n>
<endif>
<endif>
<endif>
>>

```

```

// Tracking Rule Elements

```

```

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

```

```

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

```

```

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<

```

```

<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

```

```

// AST REWRITE
// elements:      <referencedElementsDeep; separator=", ">
// token labels:  <referencedTokenLabels; separator=", ">
// rule labels:   <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<n>
<endif>
<prevRuleRootRef().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.GetNilNode();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
                    adaptor.GetChildIndex(retval.Start),
                    adaptor.GetChildIndex(_last),
                    retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef().Tree = root_0;
<endif>
<if(!rewriteMode)>
<prevRuleRootRef().Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor, "token <it>", <it>);};
    separator="\n"
>
<referencedTokenListLabels
    :{RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);};
    separator="\n"
>
<referencedWildcardLabels

```

```

: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "wildcard <it>", <it>);};
separator="\n"
>
<referencedWildcardListLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "wildcard <it>", list_<it>);};
separator="\n"
>
<referencedRuleLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "rule <it>", <it> != null ?
<it>.Tree : null);};
separator="\n"
>
<referencedRuleListLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "token <it>", list_<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext()}; separator=" || "> )
{
<alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

rewriteClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

```

```

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.HasNext()}; separator=" || ">) ) {
    throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> )
{
    <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
    <a.alt>
}<\n>
<else>
{
    <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>

```

```

<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the

```

```

* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>

```

```

new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

```

```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken(<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp2/AST.stg
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp/AST.stg

```

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*/

/** Template overrides to add debugging to normal C output;

* If ASTs are built, then you'll also get ASTDbg.stg loaded.

*/

group Dbg;

@genericParser.members() ::= <<

<if(grammar.grammarIsRoot)>

const char *

ruleNames[] =

{

"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">

};<\n>

<endif>

<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>

static ANTLR3_UINT32 ruleLevel = 0;

static ANTLR3_UINT32 getRuleLevel()

{

return ruleLevel;

}

static void incRuleLevel()

{

ruleLevel++;

}

static void decRuleLevel()

{

ruleLevel--;

}

<else> <! imported grammar !>

static ANTLR3_UINT32

getRuleLevel()

{

return <grammar.delegators:{g| <g.delegateName()>}>->getRuleLevel();

}

static void incRuleLevel()

{

<grammar.delegators:{g| <g.delegateName()>}>->incRuleLevel();

}

static void

decRuleLevel()

{

<grammar.delegators:{g| <g.delegateName()>}>.decRuleLevel();

```

}
<endif>
<if(profile)>
// Profiling not yet implemented for C target
//
<endif>
<if(grammar.grammarIsRoot)>
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
<endif>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}<\n>
>>

@genericParser.debugStuff() ::= <<
<if(grammar.grammarIsRoot)>
<createListenerAndHandshake()>
<endif>
>>

ctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
ctorForDelegateGrammar() ::= <<
>>

ctorForPredefinedListener() ::= <<
>>

createListenerAndHandshake() ::= <<
{
// DEBUG MODE code
//
pANTLR3_DEBUG_EVENT_LISTENER proxy;
proxy = antlr3DebugListenerNew();
proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,
(pANTLR3_UINT8)ctx->getGrammarFileName());

<if(TREE_PARSER)>

```

```

proxy->adaptor = ADAPTOR;
<endif>
PARSER->setDebugListener(PARSER, proxy);

// Try to connect to the debugger (waits forever for a connection)
//
proxy->handshake(proxy);

// End DEBUG MODE code
//
}
>>

@rule.preamble() ::= <<
DBG->enterRule(DBG, getGrammarFileName(), (const char *)<ruleName>");
if ( getRuleLevel()==0 )
{
    DBG->commence(DBG);
}
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
>>

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
DBG->exitRule(DBG, getGrammarFileName(), (const char *)<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 )
{
    DBG->terminate(DBG);
}
<\n>
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"

@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
    "DBG->enterSubRule(DBG, <decisionNumber>);<\n>"

exitSubRule() ::=
    "DBG->exitSubRule(DBG, <decisionNumber>);<\n>"

enterDecision() ::=

```

```

"DBG->enterDecision(DBG, <decisionNumber>);<\n>"

exitDecision() ::=
  "DBG->exitDecision(DBG, <decisionNumber>);<\n>"

enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
  "DBG->recognitionException(DBG, EXCEPTION);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
  "DBG->location(DBG, <it.line>, <it.pos>);"

@matchSet.mismatchedSetException() ::=

```

```

"DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
if (HASEXCEPTION())
{
DBG->recognitionException(DBG, EXCEPTION);
goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>
>>

@cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//{{
// DBG->recognitionException(DBG, EXCEPTION);
//}}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/C/Dbg.stg
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```
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*/

/** ANTLR's code generator.

*

* Generate recognizers derived from grammars. Language independence

* achieved through the use of StringTemplateGroup objects. All output

* strings are completely encapsulated in the group files such as Java.stg.

* Some computations are done that are unused by a particular language.

* This generator just computes and sets the values into the templates;

* the templates are free to use or not use the information.

*

* To make a new code generation target, define X.stg for language X

* by copying from existing Y.stg most closely related to your language;

* e.g., to do CSharp.stg copy Java.stg. The template group file has a

* bunch of templates that are needed by the code generator. You can add

* a new target w/o even recompiling ANTLR itself. The language=X option

* in a grammar file dictates which templates get loaded/used.

*

* Some language like C need both parser files and header files. Java needs

* to have a separate file for the cyclic DFA as ANTLR generates bytcodes

* directly (which cannot be in the generated parser Java file). To facilitate

* this,

*

* cyclic can be in same file, but header, output must be searpate. recognizer

* is in outptufile.

*/

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* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/CodeGenerator.java

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> _first_0 = null;

<ASTLabelType> _last = null;<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>

<if(rewriteMode)>

retval.tree = (<ASTLabelType>)_first_0;

if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))

```

    retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)></endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    {
    <ASTLabelType> _save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = null;
    <if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    <if(root.el.rule)>
    if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
    <else>
    if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
    <endif>
    <endif>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
        match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    }
    <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    <endif>
    <if(!rewriteMode)>
    adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
    <endif>
    _last = _save_last_<treeLevel>;
    }<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add

```



```

* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

```

```

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>

```

```

>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>( <label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp(>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>

```

>>

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

protected DebugTreeAdaptor adaptor =

new DebugTreeAdaptor(null,new CommonTreeAdaptor());

public void setTreeAdaptor(TreeAdaptor adaptor) {

this.adaptor = new DebugTreeAdaptor(dbg,adaptor);

```
}  
public TreeAdaptor getTreeAdaptor() {  
    return adaptor;  
}<\n>  
>>
```

```
parserCtorBody() ::= <<  
>>
```

```
createListenerAndHandshake() ::= <<  
<super.createListenerAndHandshake(>  
>>
```

```
ctorForPredefinedListener() ::= <<  
>>
```

```
@rewriteElement.pregen() ::= ""
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-  
jar/org/antlr/codegen/templates/C/ASTDbg.stg
```

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* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/GrammarSpelunker.java

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/Graph.java

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

jar/org/antlr/tool/BuildDependencyGenerator.java

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/Tool.java

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

```

* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.GetParent(retval.tree)!=null && adaptor.IsNil( adaptor.getParent(retval.tree) ) )
    retval.tree = (<ASTLabelType>)adaptor.GetParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>

```



```

<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenTypes.Down ) {
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

```

```

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);

```

```

<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero><(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero><(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>

```

```

<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */

```

```
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>
```

```
/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.NextNode())
  <else>
  stream_<token>.NextNode()
  <endif>
>>
```

```
ruleCleanUp() ::= <<
  <super.ruleCleanUp(>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
  retval.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
  <if(backtracking)>}<endif>
  <endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
```

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*/

```

```

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

```

```

group ASTDbg;

```

```

parserMembers() ::= <<

```

```

// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
protected DebugTreeAdaptor adaptor;

```

```

public ITreeAdaptor TreeAdaptor

```

```

{
  get
  {
    return adaptor;
  }
  set
  {
    <if(grammar.grammarIsRoot)>
      this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
    <else>
      this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
    <endif><\n>
    <grammar.directDelegates:{g|<g:delegateName().TreeAdaptor = this.adaptor;}>
  }
}<\n>
>>

```

```

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

```

```

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,

```

```

<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
DebugListener = proxy;
<inputStreamType> = new Debug<inputStreamType>( input, proxy );
try
{
    proxy.Handshake();
}
catch ( IOException ioe )
{
    ReportError( ioe );
}
>>

```

```

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

```

```

@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

```

```

@ctorForPredefinedListener.superClassRef() ::= " : base( input, dbg )"

```

```

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>

```

```

@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

```

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```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
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```

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*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;<\n>
<endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
parserCtorBody() ::= <<
<super.parserCtorBody()>
InitializeTreeAdaptor();
if ( TreeAdaptor == null )
    TreeAdaptor = new CommonTreeAdaptor();
>>
```

```
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
ITreeAdaptor adaptor;
```

```
public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
        this.adaptor = value;
        <grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor; }>
    }
}
```

```

}
}
>>

@returnScope.ruleReturnMembers() ::= <<
internal <ASTLabelType> tree;
public override object Tree { get { return tree; } }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: { <ASTLabelType> <it.label.text>_tree=null; }; separator="\n">
<ruleDescriptor.tokenListLabels: { <ASTLabelType> <it.label.text>_tree=null; }; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: { RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"); }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: { RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>"); }; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>

```

```

>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

```

```

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

{
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef(>.tree = root_0;
<rewriteCodeLabels(>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.start),
                    adaptor.GetChildIndex(retval.start),
                    adaptor.GetChildIndex(_last),
                    retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;<\n>
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}<\n>
<endif>

```

```

}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
  separator="\n"
>
<referencedTokenListLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
  separator="\n"
>
<referencedWildcardLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
  separator="\n"
>
<referencedWildcardListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
  separator="\n"
>
<referencedRuleLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
  separator="\n"
>
<referencedRuleListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>)};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}

```

```

<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

```

```

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

```

```

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

```



```

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp3/AST.stg

```

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```

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```

```

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*/

```

```

/** Templates for building ASTs during normal parsing.

```

```

*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

```

```

group ASTParser;

```

```

@rule.setErrorReturnValue() ::= <<
retval.tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

```

```

// TOKEN AST STUFF

```

```

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>

```

```

<label>_tree = <createNodeFromToken(...)>;
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)><endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)><endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

```

```

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0
= (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.Create(<label>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.tree, retval.start, retval.stop);
<if(backtracking)>}<endif>
>>

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

```

jar/org/antlr/codegen/templates/CSharp3/ASTParser.stg

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* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

jar/org/antlr/codegen/templates/Python/ST.stg

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

jar/org/antlr/codegen/templates/Java/ASTParser.stg

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

jar/org/antlr/codegen/templates/Python/ASTDbg.stg

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/serialize.g

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-

jar/org/antlr/codegen/templates/Python/AST.stg

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*/

/*

Template group file for the Objective C code generator.
Heavily based on Java.stg

Written by Kay Roepke <kroepke(at)classdump.org>

This file is part of ANTLR and subject to the same license as ANTLR itself.

*/

```
group ObjC implements ANTLRCore;
```

```
objcTypeInitMap ::= [  
  "int": "0",  
  "long": "0",  
  "float": "0.0",  
  "double": "0.0",  
  "boolean": "false",  
  "byte": "0",  
  "short": "0",  
  "char": "0",  
  "id": "nil",  
  default: "nil" // anything other than an atomic type  
]
```

```
className() ::= "<name><! if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif !>"
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
* and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
  docComment, recognizer,  
  name, tokens, tokenNames, rules, cyclicDFAs,  
  bitsets, buildTemplate, buildAST, rewriteMode, profile,  
  backtracking, synpreds, memoize, numRules,  
  fileName, ANTLRVersion, generatedTimestamp, trace,  
  scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<@imports>
#import "<name><!if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif!>.h"
<@end>
```

```
<docComment>
<recognizer>
>>
```

```
headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass,literals) ::=
```

```
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<@imports>
#import \<Cocoa/Cocoa.h>
#import \<ANTLR/ANTLR.h>
<@end>
```

```
<actions.(actionScope).header>
```

```
<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<parserHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>
<endif>
>>
```

```
lexerHeaderFile() ::=
<<
<cyclicDFAs:cyclicDFAInterface(>
```

```
#pragma mark Rule return scopes start
<rules:{ rule |
<rule:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}}>
}>
#pragma mark Rule return scopes end
```



```

#pragma mark Tokens
<tokens:{#define <name>_<it.name> <it.type>}; separator="\n">

@interface <className()> : ANTLRLexer {
<cyclicDFAs:{ dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{ p | SEL <p>SyntacticPredicate;}; separator="\n">
<actions.lexer.ivars>
}

<actions.lexer.methodsdecl>

<rules:{ rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>>})
<if(!rule.ruleDescriptor.isSynPred)>m<endif><rule.ruleName><if(rule.ruleDescriptor.parameterScope)><rule.ruleD
escriptor.parameterScope:parameterScope(scope=it)><endif>;
}>

@end
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="id<ANTLRToken> ",
    filterMode) ::= <<
<cyclicDFAs:cyclicDFA(>

/** As per Terence: No returns for lexer rules!
#pragma mark Rule return scopes start
<rules:{ rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>>}>
}>
#pragma mark Rule return scopes end
*/
@implementation <className()>

static NSArray *tokenNames;

<actions.lexer.methods>

+ (void) initialize
{
    // todo: get tokenNames into lexer - requires changes to CodeGenerator.java and ANTLRCore.sti
    tokenNames = [[NSArray alloc] init];
}

- (id) initWithCharStream:(id<ANTLRCharStream>)anInput
{
    if (nil!=(self = [super initWithCharStream:anInput])) {
        <if(memoize)>

```

```

// initialize the memoization cache - the indices are 1-based in the runtime code!
[ruleMemo addObject:[NSNull null]]; // dummy entry to ensure 1-basedness.
for (int i = 0; i < <numRules>; i++) {
    [[state ruleMemo] addObject:[NSMutableDictionary dictionary]];
}
<endif>
<synpreds:{p | <lexerSynpred(name=p)>};separator="\n">
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [[<name>DFA<dfa.decisionNumber> alloc]
initWithRecognizer:self];}; separator="\n">
<actions.lexer.init>
}
return self;
}

- (void) dealloc
{
<cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<actions.lexer.dealloc>
[super dealloc];
}

+ (NSString *) tokenNameForType:(int)aTokenType
{
return nil;
}

+ (NSArray *) tokenNames
{
return tokenNames;
}

- (NSString *) grammarFileName
{
return @"<fileName>";
}

<if(actions.lexer.reset)>
- (void) reset
{
<actions.lexer.reset>
[super reset];
}
<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>

```

```
<rules; separator="\n\n">
```

```
@end
```

```
>>
```

```
/** A override of Lexer.nextToken() that backtracks over mTokens() looking  
 * for matches. No error can be generated upon error; just rewind, consume  
 * a token and then try again. backtracking needs to be set as well.  
 */
```

```
filteringNextToken() ::= <<
```

```
- (id<ANTLRToken>) nextToken
```

```
{
```

```
  <sharedStateLocalVarDefinition(>
```

```
  while (YES) {
```

```
    if ( [input LA:1] == ANTLRCharStreamEOF ) {
```

```
      return nil; // should really be a +eofToken call here -> go figure
```

```
    }
```

```
    [self setToken:nil];
```

```
    [_state setChannel:ANTLRTokenChannelDefault];
```

```
    [_state setTokenStartLine:[input line]];
```

```
    [_state setTokenCharPositionInLine:[input charPositionInLine]];
```

```
    [_state setTokenStartCharIndex:[self charIndex]];
```

```
    @try {
```

```
      int m = [input mark];
```

```
      [_state setBacktracking:1];
```

```
      [_state setIsFailed:NO];
```

```
      [self mTokens];
```

```
      [_state setBacktracking:0];
```

```
      if ( [_state isFailed] ) {
```

```
        [input rewind:m];
```

```
        [input consume]; <! // advance one char and try again !>
```

```
      } else {
```

```
        [self emit];
```

```
        return token;
```

```
      }
```

```
    }
```

```
    @catch (ANTLRRecognitionException *re) {
```

```
      // shouldn't happen in backtracking mode, but...
```

```
      [self reportError:re];
```

```
      [self recover:re];
```

```
    }
```

```
  }
```

```
}
```

```
>>
```

```
filteringActionGate() ::= "[_state backtracking] == 1"
```

```
treeParserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment,
```

```

recognizer, name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, profile, backtracking, synpreds,
memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes,
superClass="ANTLRTreeParser") ::= <<
<parserHeaderFile(...)>
>>

parserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment,
recognizer, name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, profile, backtracking, synpreds,
memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes,
superClass="ANTLRParser") ::=
<<

<cyclicDFAs:cyclicDFAInterface()>

#pragma mark Tokens
<tokens: { #define <name>_<it.name> <it.type>; separator="\n">

#pragma mark Dynamic Global Scopes
<scopes: { <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif> }>

#pragma mark Dynamic Rule Scopes
<rules: { rule |
<rule.ruleDescriptor: { ruleDescriptor | <ruleAttributeScopeDecl(scope=ruleDescriptor.ruleScope)> }>
}>

#pragma mark Rule Return Scopes
<rules: { rule |
<rule.ruleDescriptor: { ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)> }>
}>

@interface <className()> : <@superClassName><superClass><@end> {

<cyclicDFAs: { dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>; }; separator="\n">
<synpreds: { p | SEL <p>SyntacticPredicate; }; separator="\n">
<scopes: { <if(it.isDynamicGlobalScope)><globalAttributeScopeIVar(scope=it)><endif> }>
<rules: { rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeIVar(scope=it)>
}>
<@ivars()>

<actions.(actionScope).ivars>
}

<actions.(actionScope).methodsdecl>

```

```

<rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>>})
<rule.ruleName><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>;
}>

<@methodsdecl()>

@end
>>

/** How to generate a parser */
genericParser(name, scopes, tokens, tokenNames, rules, numRules,
    cyclicDFAs, bitsets, inputStreamType, superClass,
    ASTLabelType="id", labelType, members) ::= <<

<cyclicDFAs:cyclicDFA()>

#pragma mark Bitsets
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>

#pragma mark Dynamic Global Scopes
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeImpl(scope=it)><endif>}>

#pragma mark Dynamic Rule Scopes
<rules:{rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeImpl(scope=it)>
}>

#pragma mark Rule return scopes start
<rules:{rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>}>
}>

@implementation <className()>

static NSArray *tokenNames;

+ (void) initialize
{
<bitsets:bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
tokenNames = [[NSArray alloc] initWithObjects:@"\<invalid>", @"\<EOR>", @"\<DOWN>", @"\<UP>",
<tokenNames:{ @<it>}; separator=", ", wrap="\n ">, nil];
}

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{

```

```

if ((self = [super initWithTokenStream:aStream])) {
<else><!TREE_PARSER!>
- (id) initWithTreeNodeStream:(<inputStreamType>)aStream
{
if ((self = [super initWithTreeNodeStream:aStream])) {
<endif><\n>
<if(memoize)>
ruleMemo = [[NSMutableDictionary alloc] initWithCapacity:<numRules>+1];
<endif>
<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = [[<name>DFA<dfa.decisionNumber> alloc]
initWithRecognizer:self];}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeInit(scope=it)><endif>}>
<rules:{rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit(scope=it)>
}>
<actions.(actionScope).init>
<@init()>
}
return self;
}

- (void) dealloc
{
<if(memoize)>
[ruleMemo release];
<endif>
<cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif>}>
<actions.(actionScope).dealloc>
<@dealloc()>
[super dealloc];
}

- (NSString *) grammarFileName
{
return @"<fileName>";
}

<actions.(actionScope).methods>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<@methods()>

@end
>>

```

```

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLRParser", labelType="id<ANTLRToken> ", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="id<ANTLRTokenStream>", ...)>
>>

```

```

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="id", superClass="ANTLRTreeParser",
members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="id<ANTLRTreeNodeStream>", ...)>
>>

```

```

/** Maintain a local variable for the shared state object to avoid calling the accessor all the time. */
sharedStateLocalVarDefinition() ::= <<
<if(LEXER)>ANTLRLexerState<else>ANTLRBaseRecognizerState<endif> *_state = [self state];
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
- (void) <ruleName>
{
<sharedStateLocalVarDefinition()>
<if(trace)>NSLog(@"enter <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);
@try {
<block>
}
@finally {
NSLog(@"exit <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [_state isFailed] ? @"YES" :
@"NO", [_state backtracking]);
}
<else>
<block>
<endif>
}
>>

```

```

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if ([_state isFailed]) return <ruleReturnValue>;<endif>
>>

```

```

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ([_state isBacktracking]) {[_state setIsFailed:YES]; return <ruleReturnValue(>};<endif>
>>

```

```

synpred(name) ::= <<
<!name>SyntacticPredicate = @selector(<name>); !>
>>

```

```

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

ruleMemoization(name) ::= <<
<if(memoize)>
if ([_state isBacktracking] && [self alreadyParsedRule:input ruleIndex:<ruleDescriptor.index>] ) { return
<ruleReturnValue(>}; }
<endif>
>>

```

```

/** How to generate code for a rule.
 * The return type aggregates are declared in the header file (headerFile template)
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
// $ANTLR start <ruleName>
// <fileName>:<description>
- (<returnType(>) <ruleName><ruleDescriptor.parameterScope:parameterScope(scope=it)>
{
  <if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);<endif>
  <sharedStateLocalVarDefinition(>
  <ruleScopeSetUp(>
  <ruleDeclarations(>
  <ruleLabelDefs(>
  <ruleDescriptor.actions.init>
  <@preamble(>
  <ruleMemoization(name=ruleName)>
  @try {
    <block>
  }
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><n>}>
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>

```



```

<else>
    @catch (ANTLRRecognitionException *re) {
        [self reportError:re];
        [self recover:input exception:re];
    }<\n>
<endif>
<endif>
<endif>
@finally {
    <if(trace)>NSLog(@"exit <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);<endif>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.finally):execAction()>
    <ruleScopeCleanUp()>
}
<@postamble()>
return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> _retval = [[[<returnTypeName()> alloc] init] autorelease];
[_retval setStart:[input LT:1]];<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<returnType()> _<ruleDescriptor.singleValueReturnName> = <initValue(typeName=returnType())>;
<endif>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = [input index];
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {[<name>_<it>_stack addObject: [[[<name><it>Scope alloc] init] autorelease] ]};
separator="\n">
<ruleDescriptor.ruleScope: {[<name>_<it.name>_stack addObject: [[[<name><it.name>Scope alloc] init]
autorelease] ]}; separator="\n">
>>

```

```

ruleScopeCleanup() ::= <<
<ruleDescriptor.useScopes: {[<name>_<it>_stack removeLastObject];}; separator="\n">
<ruleDescriptor.ruleScope: {[<name>_<it.name>_stack removeLastObject];}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType> _<it.label.text> = nil;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {NSMutableArray *_list_<it.label.text> = nil;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {ll|ANTLRRuleReturnScope <ll.label.text> = nil;}; separator="\n">
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
_<ruleDescriptor.singleValueReturnName>
<else>
_retval
<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
// token+rule list labels
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]: {_list_<it.label.text> release};}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[_retval setStop:[input LT:-1]];<\n>
<endif>
<endif>
<if(memoize)>
<if(backtracking)>
if ( [_state isBacktracking] ) { [self memoize:input ruleIndex:<ruleDescriptor.index>
startIndex:<ruleDescriptor.name>_startIndex]; }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/

```

```
lexerRule(ruleName,nakedBlock,ruleDescriptor,block, memoize) ::= <<
```

```
- (void)
```

```
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><en  
dif>
```

```
{
```

```
<if(trace)>NSLog(@"enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d", [input LA:1], [self line],  
[self charPositionInLine], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);<endif>
```

```
<sharedStateLocalVarDefinition>
```

```
<ruleDeclarations()>
```

```
<ruleLabelDefs()>
```

```
<ruleMemoization(name=ruleName)>
```

```
@try {
```

```
<ruleDescriptor.actions.init>
```

```
<if(nakedBlock)>
```

```
<block><\n>
```

```
<else>
```

```
int _type = <name>_<ruleName>;
```

```
<block>
```

```
[_state setTokenType:_type];<\n>
```

```
<endif>
```

```
}
```

```
@finally {
```

```
<if(trace)>NSLog(@"exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d", [input LA:1], [self  
line], [self charPositionInLine], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);<endif>
```

```
// rule cleanup
```

```
<ruleCleanUp()>
```

```
<(ruleDescriptor.actions.finally):execAction()>
```

```
}
```

```
return;
```

```
}
```

```
// $ANTLR end <ruleName>
```

```
>>
```

```
/** How to generate code for the implicitly-defined lexer grammar rule
```

```
* that chooses between lexer rules.
```

```
*/
```

```
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
```

```
- (void) mTokens
```

```
{
```

```
<block><\n>
```

```
}
```

```
>>
```

```
// S U B R U L E S
```

```
/** A (...) subrule with multiple alternatives */
```

```
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```

```

// <fileName>:<description> // block
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> //ruleblock
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // ruleBlockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // blockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // positiveClosureBlock
int cnt<decisionNumber>=0;

```

```

<decls>
<@preloop()>

do {
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
  default :
    if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
    <if(backtracking)>
      <ruleBacktrackFailure()>
    <endif>
    ANTLREarlyExitException *eee = [ANTLREarlyExitException exceptionWithStream:input
decisionNumber:<decisionNumber>];
    <@earlyExitException()>
    @throw eee;
  }
  cnt<decisionNumber>++;
} while (YES); loop<decisionNumber>; ;
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

*/** A (..)* block with 0 or more alternatives */*

```

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<decls>
<@preloop()>
do {
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
  default :
    goto loop<decisionNumber>;
  }
} while (YES); loop<decisionNumber>; ;
<@postloop()>
>>

```

closureBlockSingleAlt ::= closureBlock

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel) ::= <<
// <fileName>:<description> // alt
{
<@declarations()>
<elements:element()>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>
_<label>=<labelType>[input LT:1];<\n>
<endif>
[self match:input tokenType:<token> follow:FOLLOW_<token>_in_<ruleName><elementIndex>];
<checkRuleBacktrackFailure()>

```

```

>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (_list_<label> == nil)
  _list_<label> = [[NSMutableArray alloc] init];
[_list_<label> addObject:_<elem>];
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
int _<label> = [input LA:1];<\n>
<endif>
[self matchChar:<char>];
<checkRuleBacktrackFailure()><\n>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
_<label> = [input LA:1];<\n>
<endif>
[self matchRangeFromChar:<a> to:<b>];<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
_<label> = (<labelType>)[input LT:1];<\n>
<endif>
if (<s>) {
  <postmatchCode>
  [input consume];
  <if(!LEXER)>
  [_state setIsErrorRecovery:NO];
  <endif>
  <if(backtracking)>[_state setIsFailed:NO];<endif>
} else {
  <ruleBacktrackFailure()>
  ANTLRMismatchedSetException *mse = [ANTLRMismatchedSetException exceptionWithSet:nil stream:input];
  <@mismatchedSetException()>
  <if(LEXER)>

```

```

[self recover:mse];
<else>
[self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>];
<endif>
@throw mse;
}<\n>
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int _<label>Start = [self charIndex];
[self matchString:<string>];
<checkRuleBacktrackFailure()>
_<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid
channel:ANTLRTokenChannelDefault start:_<label>Start stop:[self charIndex]];
<else>
[self matchString:<string>];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
_<label> = (<labelType>)[input LT:1];<\n>
<endif>
[self matchAny:input];
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
int _<label> = [input LA:1];<\n>
<endif>
[self matchAny];
<checkRuleBacktrackFailure()><\n>
>>

```



```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
[[_state following] addObject:FOLLOW_in_<ruleName><elementIndex>];
<if(label)>
_<label> = [self <rule.name><if(args)>:<args; separator=" : "><endif>];<\n>
<else>
[self <rule.name><if(args)>:<args; separator=" : "><endif>];<\n>
<endif>
[[_state following] removeLastObject];
<checkRuleBacktrackFailure()><\n>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int _<label>Start<elementIndex> = [self charIndex];
[self m<rule.name><if(args)>:<args; separator=" : "><endif>];
<checkRuleBacktrackFailure()><\n>
_<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid
channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
[_<label> setLine:[self line]];
<else>
[self m<rule.name><if(args)>:<args; separator=" : "><endif>];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */

```

```

lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int _<label>Start<elementIndex> = [self charIndex];
[self matchChar:ANTLRCharStreamEOF];
<checkRuleBacktrackFailure()><\n>
<labelType> _<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeEOF
channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
[_<label> setLine:[self line]];
<else>
[self matchChar:ANTLRCharStreamEOF];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == ANTLRTokenTypeDOWN ) {
[self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
[self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
<ruleBacktrackFailure()>
@throw [ANTLRFailedPredicateException exceptionWithRuleName:@"<ruleName>"
predicate:@"<description>" stream:input];
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
int LA<decisionNumber>_<stateNumber> = [input LA:<k>];

```

```

    <edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
    <@noViableAltException()>
    @throw nvae;<\n>
<endif>
}
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
    <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
    <edges; separator="\nelse "><\n>
    <if(eotPredictsAlt)>
    else {
        alt<decisionNumber> = <eotPredictsAlt>;
    }<\n>
    <endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <labelExpr> <if(predicates)>&& <predicates><endif> ) {
  <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
  <edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else> {
  <ruleBacktrackFailure()>
  ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
  <@noViableAltException()>
  @throw nvae;<\n>
}
<endif>
}
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
  <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
  <edges; separator="\n">
<if(eotPredictsAlt)>
default:
alt<decisionNumber> = <eotPredictsAlt>
break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
  <targetState>
  break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start <name>DFA<dfa.decisionNumber>
@interface <name>DFA<dfa.decisionNumber> : ANTLRDFA {} @end<\n>
#pragma mark Cyclic DFA interface end <name>DFA<dfa.decisionNumber>
>>

/** Used in lexer/parser implementation files */
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start <name>DFA<dfa.decisionNumber>
@implementation <name>DFA<dfa.decisionNumber>
const static int <name>dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
  {<dfa.eot; wrap="\n  ", separator=",", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
  {<dfa.eof; wrap="\n  ", separator=",", null="-1">};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
  {<dfa.min; wrap="\n  ", separator=",", null="0">};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
  {<dfa.max; wrap="\n  ", separator=",", null="0">};
const static int <name>dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
  {<dfa.accept; wrap="\n  ", separator=",", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
  {<dfa.special; wrap="\n  ", separator=",", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_transition[] = { };
<dfa.edgeTransitionClassMap.keys: { table |
const static int <name>dfa<dfa.decisionNumber>_transition<i0>[] = {<table; separator=", ", wrap="\n ", null="-
1">};
}; null="">

- (id) initWithRecognizer:(ANTLRBaseRecognizer *) theRecognizer
{

```

```

if ((self = [super initWithRecognizer:theRecognizer]) != nil) {
    eot = <name>dfa<dfa.decisionNumber>_eot;
    eof = <name>dfa<dfa.decisionNumber>_eof;
    min = <name>dfa<dfa.decisionNumber>_min;
    max = <name>dfa<dfa.decisionNumber>_max;
    accept = <name>dfa<dfa.decisionNumber>_accept;
    special = <name>dfa<dfa.decisionNumber>_special;
    if (!(transition = calloc(<dfa.numberofStates>, sizeof(void*))) {
        [self release];
        return nil;
    }
    <dfa.transitionEdgeTables:{ whichTable|transition[<i0>] =
<name>dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null="">
    }
    return self;
}

```

```

<if(dfa.specialStateSTs)>

```

```

- (int) specialStateTransition:(int) s

```

```

{
    int _s = s;
    switch ( s ) {
        <dfa.specialStateSTs:{ state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
        <state>;}; separator="\n">
    }

```

```

<if(backtracking)>

```

```

if ([recognizer isBacktracking]) {
    [recognizer setIsFailed:YES];
    return -1;
}<\n>

```

```

<endif>

```

```

ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<dfa.decisionNumber> state:_s stream:[recognizer input]];

```

```

<! [self error:nvae]; !> <! for debugger - do later !>

```

```

@throw nvae;

```

```

}<\n>

```

```

<endif>

```

```

- (void) dealloc

```

```

{
    free(transition);
    [super dealloc];
}

```

```

- (NSString *) description

```

```

{
    return @"<dfa.description>";
}

```

```

}

<@errorMethod()>

@end
#pragma mark Cyclic DFA implementation end <name>DFA<dfa.decisionNumber>
<\n>
>>

cyclicDFAState(decisionNumber, stateNumber,edges,needErrorClause,semPredState) ::= <<
<if(semPredState)>
[[recognizer input] rewind];<\n>
<else>
int LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "(first(operands)<rest(operands):{o ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

/** synpreds are broken in cyclic DFA special states
 * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
method in

```

```

* ANTLRDFA
*/
/* evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>SyntacticPredicate stream:input]"
*/
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>)]"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>]==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>|>=<lower> && LA<decisionNumber>_<stateNumber>|<=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "([input LA:<k>]|>=<lower>
&& [input LA:<k>]|<=<upper>)"

setTest(ranges) ::= "<ranges; separator=\\\"|\\\">"

// A T T R I B U T E S

globalAttributeScopeDecl(scope) ::= <<
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\\n">
}
// use KVC to access attributes!
@end
>>

globalAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

globalAttributeScopeImpl(scope) ::= <<
@implementation <name><scope.name>Scope
@end
>>

globalAttributeScopeInit(scope) ::= <<
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
>>

globalAttributeScopeDealloc(scope) ::= <<
[<name>_<scope.name>_stack release];
>>

```



```

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\n">
}
// use KVC to access attributes!
@end
<endif>
>>

ruleAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

ruleAttributeScopeImpl(scope) ::= <<
<if(scope.attributes)>
@implementation <name><scope.name>Scope
@end
<endif>
>>

ruleAttributeScopeInit(scope) ::= <<
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
>>

ruleAttributeScopeDealloc(scope) ::= <<
[<name>_<scope.name>_stack release];
>>

returnTypeName() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<className()>_<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
void<! for synpreds this is always void !>
<endif>
>>

returnType() ::= <<

```

```

<returnTypeName()><if(!ruleDescriptor.isSynPred)><if(ruleDescriptor.hasMultipleReturnValues)>
* <endif><endif>
>>

/** Generate the Objective-C type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<objcTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> _<label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScopeInterface(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
@interface <returnTypeName()> : ANTLR<if(TREE_PARSER)>Tree<endif>ParserRuleReturnScope {
  <scope.attributes:{<it.decl>;}; separator="\n">
  <@ivars()>
  <actions.(actionScope).ruleReturnIvars>
}
<@methods()>
<actions.(actionScope).ruleReturnMethodsDecl>
@end
<endif>

```

```

<endif>
>>

returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
@implementation <returnTypeName()>
<@methods()>
<actions.(actionScope).ruleReturnMethods>
@end
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes: {:(<it.type>)<it.name>} ; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
[<scopeAttributeRefStack()> valueForKey:@ "<attr.name>"]
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
[<scopeAttributeRefStack()> setValue:<expr> forKey:@ "<attr.name>"];
>>

scopeAttributeRefStack() ::= <<
<if(negIndex)>
[<name>_<scope>_stack objectAtIndex:[<name>_<scope>_stack count]-<negIndex>-1]
<else>
<if(index)>
[<name>_<scope>_stack objectAtIndex:<index>]
<else>
[<name>_<scope>_stack lastObject]
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<name>_<scope>_stack"

/** reference an attribute of rule; might only have single return value */

```

```

ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
[<scope> valueForKey:@"<attr.name>"]
<else>
_<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue: forKey:@"<attr.name>"];
<else>
_<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue:<expr> forKey:@"<attr.name>"];
<else>
_<attr.name> =<expr>;
<if(LEXER)>
// double check this after beta release!
[_<attr.name> retain];
<endif>
<endif>
>>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "_<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "_list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "[<scope> text]"
tokenLabelPropertyRef_type(scope,attr) ::= "[<scope> type]"
tokenLabelPropertyRef_line(scope,attr) ::= "[<scope> line]"
tokenLabelPropertyRef_pos(scope,attr) ::= "[<scope> charPositionInLine]"
tokenLabelPropertyRef_channel(scope,attr) ::= "[<scope> channel]"
tokenLabelPropertyRef_index(scope,attr) ::= "[<scope> tokenIndex]"
tokenLabelPropertyRef_tree(scope,attr) ::= "_<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "[<scope> start]"
ruleLabelPropertyRef_stop(scope,attr) ::= "[<scope> stop]"
ruleLabelPropertyRef_tree(scope,attr) ::= "[<scope> tree]"

```

```

ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
//[input textForNode:[_<scope> start]]
[input substringWithRange:NSMakeRange([[input treeAdaptor] startIndex:[_<scope> start]], [[input treeAdaptor]
stopIndex:[_<scope> start]])]
<else>
[input substringWithRange:NSMakeRange([_<scope> start], [_<scope> stop]-[_<scope> start])]
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "[_<scope> st]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "_<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "[_<scope> type]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "[_<scope> line]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "[_<scope> charPositionInLine]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "[_<scope> channel]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "[_<scope> tokenIndex]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "[_<scope> text]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "[_retval start]"
rulePropertyRef_stop(scope,attr) ::= "[_retval stop]"
rulePropertyRef_tree(scope,attr) ::= "[_retval tree]"
rulePropertyRef_text(scope,attr) ::= "[input substringWithRange:NSMakeRange(_start, [input index]-_start)]"
rulePropertyRef_st(scope,attr) ::= "[_retval st]"

ruleSetPropertyRef_tree(scope,attr,expr) ::= "[_retval setValue:<expr> forKey:@\"tree\"]"
ruleSetPropertyRef_st(scope,attr,expr) ::= "<\n>#error String Templates are unsupported<\n>"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "[_state setText:<expr>];"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "[_state tokenStartLine]"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "[_state tokenCharPositionInLine]"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" // undefined token index in lexer
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "[_state setChannel:<expr>];"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "[_state tokenStartCharIndex]"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "([self charIndex]-1)"

lexerRulePropertyRef_text(scope,attr) ::= "[self text]"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "[_state tokenStartLine]"
lexerRulePropertyRef_pos(scope,attr) ::= "[_state tokenCharPositionInLine]"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer

```

```

lexerRulePropertyRef_channel(scope,attr) ::= "[_state channel]"
lexerRulePropertyRef_start(scope,attr) ::= "[_state tokenStartCharIndex]"
lexerRulePropertyRef_stop(scope,attr) ::= "([self charIndex]-1)"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> ) {
  <action>
}
<else>
if ( ![_state isBacktracking] ) {
  <action>
}
<endif>
<else>
<action>
<endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
const static unsigned long long <name>_data[] = {<words64:{<it>LL};separator=",">};
static ANTLRBitSet *<name>;
<! ANTLRBitSet *<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];<\n> !>
>>

bitsetInit(name, words64) ::= <<
<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];<\n>
>>

codeFileExtension() ::= ".m"
headerFileExtension() ::= ".h"

true() ::= "YES"
false() ::= "NO"

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

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Found in path(s):

- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/RubyTarget.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/PythonTarget.java

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- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NFAContext.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/JavaTarget.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/DFA.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/DFAState.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/StateCluster.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/Interval.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/CPPTarget.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/LookaheadSet.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NFA.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/DecisionProbe.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/SemanticContext.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NFAToDFAConverter.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/NFAFactory.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/IntervalSet.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/OrderedHashSet.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/RuleClosureTransition.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Java/ST.stg
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/DFAOptimizer.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/Transition.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NFAState.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/Label.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/BitSet.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/IntArrayList.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/Utils.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/misc/IntSet.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/Target.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/NFAConfiguration.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Java/Dbg.stg
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/ActionScriptTarget.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/ACyclicDFACodeGenerator.java
- * /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/analysis/State.java

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*/

/** Template overrides to add debugging to normal Python output;

* If ASTs are built, then you'll also get ASTDbg.stg loaded.

*/

group Dbg;

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
from antlr3.debug import *
```

```
>>
```

```
@genericParser.args() ::= <<
```

```
debug_socket = kwargs.pop('debug_socket', None)
```

```
port = kwargs.pop('port', None)
```

```
>>
```

```
@genericParser.init() ::= <<
```

```
self.ruleLevel = 0
```

```
if self._dbg is None:
```

```
    <createListenerAndHandshake(>
```

>>

```
createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
proxy = DebugEventSocketProxy(self, adaptor=self.input.getTreeAdaptor(),
    debug=debug_socket, port=port)<\n>
<else>
proxy = DebugEventSocketProxy(self, debug=debug_socket, port=port)<\n>
<endif>
self.setDebugListener(proxy)
proxy.handshake()
>>
```

>>

```
@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
ruleNames = [
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n    ", separator=", ">
] <\n>
<endif>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
def getRuleLevel(self):
    return self.ruleLevel

def incRuleLevel(self):
    self.ruleLevel += 1

def decRuleLevel(self):
    self.ruleLevel -= 1

<if(profile)>
    <ctorForProfilingRootGrammar()>
<else>
    <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else> <! imported grammar !>
def getRuleLevel(self):
    return <grammar.delegators:{g| <g.delegateName()>}>.getRuleLevel()

def incRuleLevel(self):
    <grammar.delegators:{g| <g.delegateName()>}>.incRuleLevel()

def decRuleLevel(self):
    <grammar.delegators:{g| <g.delegateName()>}>.decRuleLevel()

<ctorForDelegateGrammar()>
<endif>
```

```

<if(profile)>
FIXME(2)
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    ((Profiler)self._dbg).examineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return super.alreadyParsedRule(input, ruleIndex);
}<\n>
FIXME(3)
public void memoize(IntStream input,
                    int ruleIndex,
                    int ruleStartIndex)
{
    ((Profiler)self._dbg).memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    super.memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
def evalPredicate(self, result, predicate):
    self._dbg.semanticPredicate(result, predicate)
    return result
<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<!
public <name>(<inputStreamType> input) {
    this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
    super(input, state);
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}>)}; separator="\n">
    <@finally()>
}<\n>
!>
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState state) {
    super(input, self.dbg, state);

```

```

    Profiler p = (Profiler)self.dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(input, self.dbg, this.state, this<grammar.delegates:{g|,
    <g.delegateName()>>>}); separator="\n">
        <@finally()>
    }
    <\n>
    >>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
    <!
    public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState
    state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>>>) {
        super(input, dbg, state);
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegates:{g|,
    <g.delegateName()>>>}); separator="\n">
        }<\n>
    !>
    >>

```

```

ctorForPredefinedListener() ::= <<
    <!
    public <name>(<inputStreamType> input, DebugEventListener dbg) {
        <@superClassRef>super(input, dbg, new RecognizerSharedState());<@end>
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
    this<grammar.delegates:{g|, <g.delegateName()>>>}); separator="\n">
        <@finally()>
    }<\n>
    !>
    >>

```

```

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

```

```

@rule.body() ::= <<
try:
    self._dbg.enterRule(self.getGrammarFileName(), "<ruleName>")
    if self.getRuleLevel() == 0:
        self._dbg.commence();

```

```

self.incRuleLevel()
self._dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)

<@super.body()>

self._dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
finally:
self._dbg.exitRule(self.getGrammarFileName(), "<ruleName>")
self.decRuleLevel()
if self.getRuleLevel() == 0:
    self._dbg.terminate()

>>

@synpred.start() ::= "self._dbg.beginBacktrack(self._state.backtracking)"

@synpred.stop() ::= "self._dbg.endBacktrack(self._state.backtracking, success)"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
    "try { self._dbg.enterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
    "} finally {self._dbg.exitSubRule(<decisionNumber>);}<\n>"

enterDecision() ::=
    "try { self._dbg.enterDecision(<decisionNumber>);<\n>"

exitDecision() ::=
    "} finally {self._dbg.exitDecision(<decisionNumber>);}<\n>"

enterAlt(n) ::= "self._dbg.enterAlt(<n>)<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.body() ::= <<
try:
    self._dbg.enterSubRule(<decisionNumber>)
    <@super.body()>
finally:
    self._dbg.exitSubRule(<decisionNumber>)
>>

@blockBody.decision() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>)
    <@super.decision()>

```

```

finally:
  self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlock.decision() ::= <<
try:
  self._dbg.enterDecision(<decisionNumber>)
  <@super.decision()>
finally:
  self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlockSingleAlt.preatt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preatt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.loopBody() ::= <<
try:
  self._dbg.enterSubRule(<decisionNumber>)
  <@super.loopBody()>
finally:
  self._dbg.exitSubRule(<decisionNumber>)<\n>
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
try:
  self._dbg.enterDecision(<decisionNumber>)
  <@super.decisionBody()>
finally:
  self._dbg.exitDecision(<decisionNumber>)
>>

@positiveClosureBlockLoop.earlyExitException() ::=
  "self._dbg.recognitionException(eee)<\n>"

@closureBlock.loopBody() ::= <<
try:
  self._dbg.enterSubRule(<decisionNumber>)
  <@super.loopBody()>
finally:
  self._dbg.exitSubRule(<decisionNumber>)<\n>
>>

@closureBlockLoop.decisionBody() ::= <<
try:
  self._dbg.enterDecision(<decisionNumber>)
  <@super.decisionBody()>
finally:

```

```

    self._dbg.exitDecision(<decisionNumber>)
>>

@altSwitchCase.preatt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
    "self._dbg.location(<it.line>, <it.pos>)"

@matchSet.mismatchedSetException() ::=
    "self._dbg.recognitionException(mse)"

@dfaState.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

@dfaStateSwitch.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

dfaDecision(decisionNumber,description) ::= <<
try:
    self.isCyclicDecision = True
    <super.dfaDecision(...)>

except NoViableAltException, nvae:
    self._dbg.recognitionException(nvae)
    raise

>>

@cyclicDFA.errorMethod() ::= <<
def error(self, nvae):
    self._dbg.recognitionException(nvae)

>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
self.evalPredicate(<pred>,"<description>")
>>

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Python/Dbg.stg
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*/

/** Templates for building ASTs during normal parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* The situation is not too bad as rewrite (->) usage makes ^ and !

* invalid. There is no huge explosion of combinations.

*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,
Input.LT(-1), RE) as I<ASTLabelType>;

>>

// TOKEN AST STUFF

/** ID and output=AST */

tokenRef(token,label,elementIndex,hetero) ::= <<

<super.tokenRef(...)>


```

<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<label>_tree := <createNodeFromToken(...)>;
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := <createNodeFromToken(...)>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

```

```

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] :=
Adaptor.BecomeRoot(<createNodeFromToken(...)>, Root[0] as I<ASTLabelType>);}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0])

```

```

as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;

```

```

<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
T<hetero>.Create(<label>) <! new MethodNode(IDLabel) !>
<else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(!TREE_PARSER)>
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<\n>end;
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Delphi/ASTParser.stg

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/*

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*/

/** Template overrides to add debugging to normal Java output;

* If ASTs are built, then you'll also get ASTDbg.stg loaded.

*/

group Dbg;

@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"

@outputFile.imports() ::= <<

<@super.imports(>

using Antlr.Runtime.Debug;

using IOException = System.IO.IOException;

>>

@genericParser.members() ::= <<

<if(grammar.grammarIsRoot)>

public static readonly string[] ruleNames = new string[] {

"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">

};<\n>

<endif>

<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>

private int ruleLevel = 0;

public int RuleLevel {

get { return ruleLevel; }

}

public void IncRuleLevel() { ruleLevel++; }

public void DecRuleLevel() { ruleLevel--; }

<if(profile)>

<ctorForProfilingRootGrammar(>

<else>

<ctorForRootGrammar(>

<endif>

<ctorForPredefinedListener(>

<else> <! imported grammar !>

public int RuleLevel {

get { return <grammar.delegators:{g| <g.delegateName(>>.RuleLevel; }

}

```

    public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName(>}>}.IncRuleLevel(); }
    public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName(>}>}.DecRuleLevel(); }
    <ctorForDelegateGrammar(>
<endif>
<if(profile)>
override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
override public void Memoize(IIntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected bool EvalPredicate(bool result, string predicate)
{
    dbg.SemanticPredicate(result, predicate);
    return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members(>> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input)
    : this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state)
    : base(input, state) {
    <createListenerAndHandshake(>
    <parserCtorBody(>
    <grammar.directDelegates:{g|<g:delegateName(> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName(>}>)}); separator="\n">
    <@finally(>
}<\n>
>>

@parserCtorBody.initializeCyclicDFAs() ::= <<
InitializeCyclicDFAs(dbg);
>>

```

```

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name><(inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}

public <name><(inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)
    : base(input, dbg, state) {
    Profiler p = (Profiler)dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|,
<g:delegateName()>>});}; separator="\n">
        <@finally()>
    }
<\n>
>>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name><(inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>>})
    : base(input, dbg, state) {
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|,
<g:delegateName()>>});}; separator="\n">
    }<\n>
>>

```

```

ctorForPredefinedListener() ::= <<
public <name><(inputStreamType> input, IDebugEventListener dbg)
    : <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
<if(profile)>
    Profiler p = (Profiler)dbg;
    p.setParser(this);
<endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>>});}; separator="\n">
    <@finally()>
} <\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>

```

```

DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
<else>
DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, null);
<endif>
DebugListener = dbg;
try
{
    dbg.Handshake();
}
catch (IOException ioe)
{
    ReportError(ioe);
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

@rule.preamble() ::= <<
try {
    dbg.EnterRule(GrammarFileName, "<ruleName>");
    if ( RuleLevel==0 ) { dbg.Commence();}
    IncRuleLevel();
    dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
}
>>

@lexer.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@lexer.debugAddition() ::= ", dbg"

@genericParser.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@genericParser.debugAddition() ::= ", dbg"

@rule.postamble() ::= <<
dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
}
finally {
    dbg.ExitRule(GrammarFileName, "<ruleName>");
    DecRuleLevel();
    if ( RuleLevel==0 ) { dbg.Terminate();}
}<\n>
>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

```



```

enterSubRule() ::=
    "try { dbg.EnterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
    "} finally { dbg.ExitSubRule(<decisionNumber>); }<\n>"

enterDecision() ::=
    "try { dbg.EnterDecision(<decisionNumber>);<\n>"

exitDecision() ::=
    "} finally { dbg.ExitDecision(<decisionNumber>); }<\n>"

enterAlt(n) ::= "dbg.EnterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
    "dbg.RecognitionException(eee<decisionNumber>);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

```

```

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
    "dbg.Location(<it.line>,<it.pos>);"

@matchSet.mismatchedSetException() ::=
    "dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::=
    "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

dfaDecision(decisionNumber,description) ::= <<
try
{
    isCyclicDecision = true;
    <super.dfaDecision(...)>
}
catch (NoViableAltException nvae)
{
    dbg.RecognitionException(nvae);
    throw nvae;
}
>>

@cyclicDFA.dbgCtor() ::= <<
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer)
    {
        this.dbg = dbg;
    }
>>

@cyclicDFA.debugMember() ::= <<
    IDebugEventListener dbg;

>>

@cyclicDFA.errorMethod() ::= <<
    public override void Error(NoViableAltException nvae)
    {
        dbg.RecognitionException(nvae);
    }
>>

/** Force predicate validation to trigger an event */

```

```
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>,"<description>")
>>
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp2/Dbg.stg
```

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

```
/*
```

```
[The "BSD licence"]
```

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```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```
* child, root
```

```
* token, set, rule, wildcard
```

```
*
```

```
* Each combination has its own template except that label/no label
```

```
* is combined into tokenRef, ruleRef, ...
```

```
*/
```

```

group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var _first_0:<ASTLabelType> = null;
var _last:<ASTLabelType> = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = <ASTLabelType>(_first_0);
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = <ASTLabelType>(input.LT(1));
{
var _save_last_<treeLevel>:<ASTLabelType> = _last;
var _first_<treeLevel>:<ASTLabelType> = null;
<if(!rewriteMode)>
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
    matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>

```

```

    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>( <label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>( <label> );
  <else>
  <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
  <endif><\n>
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
  <if(backtracking)>}<endif>
  <endif>
  >>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
  >>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
  >>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>( <label> );
  <else>

```

```

<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)></endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)></endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
<ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to

```



```

* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
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```

```

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*/

group AST;

@outputFile.imports() ::= <<

<@super.imports()>

<if(!TREE_PARSER)><! tree parser would already have imported !>

import org.antlr.runtime.tree.*;<\n>

<endif>

>>

@genericParser.members() ::= <<

<@super.members()>

<parserMembers()>

>>

/** Add an adaptor property that knows how to build trees */

parserMembers() ::= <<

protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n>

public void setTreeAdaptor(TreeAdaptor adaptor) {

 this.adaptor = adaptor;

 <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>

}

public TreeAdaptor getTreeAdaptor() {

 return adaptor;

}

>>

@returnScope.ruleReturnMembers() ::= <<

<ASTLabelType> tree;

public Object getTree() { return tree; }

>>

/** Add a variable to track rule's return AST */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> root_0 = null;<\n>

>>

ruleLabelDefs() ::= <<

<super.ruleLabelDefs()>

<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,

 ruleDescriptor.wildcardTreeListLabels]:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">

<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">

<ruleDescriptor.allTokenRefsInAltsWithRewrites

 :{RewriteRule<rewriteElementType>Stream stream_<it>=new

 RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">

```

<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

```

```

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<n>
<endif>

```

```

<prevRuleRootRef(>.tree = root_0;
<rewriteCodeLabels(>
root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.replaceChildren(adaptor.getParent(retval.start),
    adaptor.getChildIndex(retval.start),
    adaptor.getChildIndex(_last),
    retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedWildcardLabels
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedRuleLabels
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule

```

```

<it>",<it>!=null?<it>.tree:null);};
    separator="\n"
>
<referencedRuleListLabels
    :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",<it>);};
    separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

rewriteClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewritePositiveClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
    throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {

```

```

    <alt>
  }
  <referencedElements:{el | stream_<el>.reset();<\n}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

```

```

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>
>>

```



```

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)

```

```
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/templates/Java/AST.stg

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```

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```
*/
```

```
/** Templates for building ASTs during normal parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```
* child, root
```

```
* token, set, rule, wildcard
```

```
*
```

```
* The situation is not too bad as rewrite (->) usage makes ^ and !
```

```
* invalid. There is no huge explosion of combinations.
```

```

*/
group ASTParser;

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
<block>
<endif>
>>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>

```

```

<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})})}>>>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(..., postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}>>}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<

```

```

<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)

```

```

})>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero><label> <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.start, retval.stop)
})>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/Python/ASTParser.stg

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```

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

* hierarchy is set up as ASTDbg : AST : Dbg : C# by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor

{

get {

<if(grammar.grammarIsRoot)>

return this.adaptor;

<else>

this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor

<endif><\n>

<grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>

}

set { this.adaptor = new DebugTreeAdaptor(dbg, value); }

<\n>

>>

parserCtorBody() ::= <<

<super.parserCtorBody()>

>>

createListenerAndHandshake() ::= <<

DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, adaptor);

DebugListener = dbg;

<!

Original line follows, replaced by the next two ifs:

set<inputStreamType>(new Debug<inputStreamType>(input,dbg));

!>

<if(PARSER)>

TokenStream = new DebugTokenStream(input,dbg);<\n>

<endif>

<if(TREE_PARSER)>

TokenStream = new DebugTreeNodeStream(input,dbg);<\n>

<endif>

try {

dbg.Handshake();

} catch (IOException ioe) {

ReportError(ioe);

```
}  
>>
```

```
@ctorForRootGrammar.finally() ::= <<  
ITreeAdaptor adap = new CommonTreeAdaptor();  
TreeAdaptor = adap;  
dbg.TreeAdaptor = adap;  
>>
```

```
@ctorForProfilingRootGrammar.finally() ::= <<  
ITreeAdaptor adap = new CommonTreeAdaptor();  
TreeAdaptor = adap;  
dbg.TreeAdaptor = adap;  
>>
```

```
@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"
```

```
@ctorForPredefinedListener.finally() ::= <<  
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>  
ITreeAdaptor adap = new CommonTreeAdaptor();  
TreeAdaptor = adap;<\n>  
<endif>  
>>
```

```
@rewriteElement.pregen() ::= "dbg.Location(<e.line>,<e.pos>);"
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-  
jar/org/antlr/codegen/templates/CSharp2/ASTDbg.stg
```

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*/

```
interface ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals);
```

```
/** The header file; make sure to define headerFileExtension() below */
```

```
optional
```

```
headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals);
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType,  
       filterMode, superClass);
```

```
parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,  
        bitsets, ASTLabelType, superClass,  
        labelType, members);
```

```
/** How to generate a tree parser; same as parser except the input
```

```
 * stream is a different type.
```

```
*/
```

```
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,  
           numRules, bitsets, labelType, ASTLabelType,  
           superClass, members, filterMode);
```

```

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock);

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize);

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize);

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor);

filteringNextToken();

filteringActionGate();

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

positiveClosureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

```

```

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

closureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

optionalBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew);

// E L E M E N T S

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero);

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero);

listLabel(label,elem);

/** match a character */
charRef(char,label);

/** match a character range */
charRangeRef(a,b,label);

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode);

matchSetAndListLabel(s,label,elementIndex,postmatchCode);

/** Match a string literal */
lexerStringRef(string,label);

wildcard(label,elementIndex);

wildcardAndListLabel(label,elementIndex);

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex);

```

```

wildcardCharListLabel(label, elementIndex);

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args,scope);

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args,scope);

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope);

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope);

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex);

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel);

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description);

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 *
 * If a semPredState, don't force lookahead lookup; preds might not
 * need.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a
 * rule anything other than 'a' predicts exiting.
 */

```

```

* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt);

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates);

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaEdgeSwitch(labels, targetState);

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description);

/** Generate the tables and support code needed for the DFASState object
* argument. Unless there is a semantic predicate (or syn pred, which
* become sem preds), all states should be encoded in the state tables.
* Consequently, cyclicDFASState/cyclicDFAEdge,eotDFAEdge templates are
* not used except for special DFA states that cannot be encoded as
* a transition table.
*/
cyclicDFA(dfa);

/** A special state in a cyclic DFA; special means has a semantic predicate
* or it's a huge set of symbols to check.
*/
cyclicDFASState(decisionNumber,stateNumber,edges,needErrorClause,semPredState);

```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special
 * states.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates);

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates);

// D F A E X P R E S S I O N S

andPredicates(left,right);

orPredicates(operands);

notPredicate(pred);

evalPredicate(pred,description);

evalSynPredicate(pred,description);

lookaheadTest(atom,k,atomAsInt);

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt);

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

setTest(ranges);

// A T T R I B U T E S

parameterAttributeRef(attr);
parameterSetAttributeRef(attr,expr);

scopeAttributeRef(scope,attr,index,negIndex);
scopeSetAttributeRef(scope,attr,expr,index,negIndex);

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>0) && $function::name.equals("foo")}?

```

```

*/
isolatedDynamicScopeRef(scope);

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr);

returnAttributeRef(ruleDescriptor,attr);
returnSetAttributeRef(ruleDescriptor,attr,expr);

/** How to translate $tokenLabel */
tokenLabelRef(label);

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label);

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr);
tokenLabelPropertyRef_type(scope,attr);
tokenLabelPropertyRef_line(scope,attr);
tokenLabelPropertyRef_pos(scope,attr);
tokenLabelPropertyRef_channel(scope,attr);
tokenLabelPropertyRef_index(scope,attr);
tokenLabelPropertyRef_tree(scope,attr);

ruleLabelPropertyRef_start(scope,attr);
ruleLabelPropertyRef_stop(scope,attr);
ruleLabelPropertyRef_tree(scope,attr);
ruleLabelPropertyRef_text(scope,attr);
ruleLabelPropertyRef_st(scope,attr);

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label);

lexerRuleLabelPropertyRef_type(scope,attr);
lexerRuleLabelPropertyRef_line(scope,attr);
lexerRuleLabelPropertyRef_pos(scope,attr);
lexerRuleLabelPropertyRef_channel(scope,attr);
lexerRuleLabelPropertyRef_index(scope,attr);
lexerRuleLabelPropertyRef_text(scope,attr);

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr);
rulePropertyRef_stop(scope,attr);
rulePropertyRef_tree(scope,attr);
rulePropertyRef_text(scope,attr);
rulePropertyRef_st(scope,attr);

```

```
lexerRulePropertyRef_text(scope,attr);
lexerRulePropertyRef_type(scope,attr);
lexerRulePropertyRef_line(scope,attr);
lexerRulePropertyRef_pos(scope,attr);
/** Undefined, but present for consistency with Token attributes; set to -1 */
lexerRulePropertyRef_index(scope,attr);
lexerRulePropertyRef_channel(scope,attr);
lexerRulePropertyRef_start(scope,attr);
lexerRulePropertyRef_stop(scope,attr);
```

```
ruleSetPropertyRef_tree(scope,attr,expr);
ruleSetPropertyRef_st(scope,attr,expr);
```

```
/** How to execute an action */
execAction(action);
```

```
// M I S C (properties, etc...)
```

```
codeFileExtension();
```

```
/** Your language needs a header file; e.g., ".h" */
optional headerFileExtension();
```

```
true();
false();
```

Found in path(s):

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/ANTLRCore.sti
```

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

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2005-2006 Terence Parr
```

```
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```

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*/

/*

New style messages. This file only contains the messages in English, but no information about which file, line, or column it occurred in.

The location and message ids are taken out of the formats directory.

Kay Roepke

*/

group en_US;

// TOOL ERRORS

// file errors

CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= <<

cannot write file <arg>: <exception>

<stackTrace; separator="\n">

>>

CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"

CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"

ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= <<

problem reading token vocabulary file <arg>: <exception>

<stackTrace; separator="\n">

>>

DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"

OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"

CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason: <exception><endif>"

CIRCULAR_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid build order."

INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= <<

internal error: <arg> <arg2><if(exception)>: <exception><endif>

<stackTrace; separator="\n">

>>

INTERNAL_WARNING(arg) ::= "internal warning: <arg>"

ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= <<

problems creating lexer rule listing all tokens: <exception>

<stackTrace; separator="\n">

>>

TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::=

```

"problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::=
"cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::=
"bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::=
"file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::=
"file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::=
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::=
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::=
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::=
"cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::=
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::=
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::=
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::=
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::=
"parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::=
"cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::=
"no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::=
"reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::=
"literal has no associated lexer rule: <arg>"

```

CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::=
 "literals are illegal in lexer tokens{ } section: <arg>"

ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::=
 "reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"

UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::=
 "unknown attribute for <arg>: <arg2>"

UNKNOWN_RULE_ATTRIBUTE(arg,arg2) ::=
 "unknown attribute for rule <arg>: <arg2>"

UNKNOWN_SIMPLE_ATTRIBUTE(arg,args2) ::=
 "attribute is not a token, parameter, or return value: <arg>"

ISOLATED_RULE_SCOPE(arg) ::=
 "missing attribute access on rule scope: <arg>"

INVALID_RULE_PARAMETER_REF(arg,arg2) ::=
 "cannot access rule <arg>'s parameter: <arg2>"

INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg,arg2) ::=
 "cannot access rule <arg>'s dynamically-scoped attribute: <arg2>"

SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::=
 "symbol <arg> conflicts with global dynamic scope with same name"

WRITE_TO_READONLY_ATTR(arg,arg2,arg3) ::=
 "cannot write to read only attribute: \$<arg><if(arg2)>.<arg2><endif>"

LABEL_CONFLICTS_WITH_RULE(arg) ::=
 "label <arg> conflicts with rule with same name"

LABEL_CONFLICTS_WITH_TOKEN(arg) ::=
 "label <arg> conflicts with token with same name"

LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg,arg2) ::=
 "label <arg> conflicts with rule <arg2>'s dynamically-scoped attribute with same name"

LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::=
 "label <arg> conflicts with rule <arg2>'s return value or parameter with same name"

ATTRIBUTE_CONFLICTS_WITH_RULE(arg,arg2) ::=
 "rule <arg2>'s dynamically-scoped attribute <arg> conflicts with the rule name"

ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::=
 "rule <arg2>'s dynamically-scoped attribute <arg> conflicts with<arg2>'s return value or parameter with same name"

LABEL_TYPE_CONFLICT(arg,arg2) ::=
 "label <arg> type mismatch with previous definition: <arg2>"

ARG_RETVAL_CONFLICT(arg,arg2) ::=
 "rule <arg2>'s argument <arg> conflicts a return value with same name"

NONUNIQUE_REF(arg) ::=
 "<arg> is a non-unique reference"

FORWARD_ELEMENT_REF(arg) ::=
 "illegal forward reference: <arg>"

MISSING_RULE_ARGS(arg) ::=
 "missing parameter(s) on rule reference: <arg>"

RULE_HAS_NO_ARGS(arg) ::=
 "rule <arg> has no defined parameters"

ARGS_ON_TOKEN_REF(arg) ::=
 "token reference <arg> may not have parameters"

/*

```

NONCHAR_RANGE() ::=
"range operator can only be used in the lexer"
*/
ILLEGAL_OPTION(arg) ::=
"illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::=
"rule '+' list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::=
"reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::=
"reference to rewrite element <arg> without reference on left of ->"
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::=
"reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::=
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= <<
<if(arg)>
set complement ~<arg> is empty
<else>
set complement is empty
<endif>
>>
UNKNOWN_DYNAMIC_SCOPE(arg) ::=
"unknown dynamic scope: <arg>"
UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg,arg2) ::=
"unknown dynamically-scoped attribute for scope <arg>: <arg2>"
RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::=
"reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"
ISOLATED_RULE_ATTRIBUTE(arg) ::=
"reference to locally-defined rule scope attribute without rule name: <arg>"
INVALID_ACTION_SCOPE(arg,arg2) ::=
"unknown or invalid action scope for <arg2> grammar: <arg>"
ACTION_REDEFINITION(arg) ::=
"redefinition of <arg> action"
DOUBLE_QUOTES_ILLEGAL(arg) ::=
"string literals must use single quotes (such as '\begin\'): <arg>"
INVALID_TEMPLATE_ACTION(arg) ::=
"invalid StringTemplate % shorthand syntax: '<arg>'"
MISSING_ATTRIBUTE_NAME() ::=
"missing attribute name on $ reference"
ARG_INIT_VALUES_ILLEGAL(arg) ::=
"rule parameters may not have init values: <arg>"
REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::=
"<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"
AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::=
"AST operator with non-AST output option: <arg>"
NO_RULES(arg) ::= "grammar file <arg> has no rules"

```

```

MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::=
    "tree grammar <arg> has no ASTLabelType option"
REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::=
    "with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be
correct"
RULE_INVALID_SET(arg) ::=
    "Cannot complement rule <arg>; not a simple set or element"
HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::=
    "alts with rewrites can't use heterogeneous types left of ->"
NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::=
    "reference to undefined grammar in rule reference: <arg>.<arg2>"
NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::=
    "rule <arg2> is not defined in grammar <arg>"
TOKEN_ALIAS_CONFLICT(arg,arg2) ::=
    "cannot alias <arg>; string already assigned to <arg2>"
TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::=
    "cannot alias <arg>; token name already assigned to <arg2>"
TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::=
    "tokenVocab option ignored in imported grammar <arg>"
INVALID_IMPORT(arg,arg2) ::=
    "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar
<arg2.name>"
IMPORTED_TOKENS_RULE_EMPTY(arg,arg2) ::=
    "no lexer rules contributed to <arg> from imported grammar <arg2>"
IMPORT_NAME_CLASH(arg,arg2) ::=
    "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate
<arg2.recognizerName>; import ignored"
AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::=
    "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"
WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"
CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar
filter mode"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::=
<<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:
<paths:{ alt <it.alt> via NFA path <it.states; separator=","><\n}>
<else>
Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator="," >
<endif>
<if(disabled)><\n>As a result, alternative(s) <disabled; separator=","> were disabled for that
input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by
actions.<endif>
>>

```

DANGLING_STATE(danglingAlts,input) ::= <<
the decision cannot distinguish between alternative(s) <danglingAlts; separator=","> for input such as "<input>"
>>

UNREACHABLE_ALTS(alts) ::= <<
The following alternatives can never be matched: <alts; separator=","><\n>
>>

INSUFFICIENT_PREDICATES(upon,altToLocations,hasPredicateBlockedByAction) ::= <<
Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>:
<altToLocations.(alt):{loc| line <loc.line>:<loc.column> at <loc.text>}; separator=",">; separator=","
><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>
>>

DUPLICATE_SET_ENTRY(arg) ::=
"duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= <<
ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references
visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1.
Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.
>>

RECURSION_OVERFLOW(alt,input,targetRules,callSiteStates) ::= <<
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion
overflow <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>};separator=",">; separator=","
and ">
>>

LEFT_RECURSION(targetRules,alt,callSiteStates) ::= <<
Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from
<c:{s|<s.enclosingRule>};separator=",">; separator="," and ">
>>

UNREACHABLE_TOKENS(tokens) ::= <<
The following token definitions can never be matched because prior tokens match the same input: <tokens;
separator=",">
>>

TOKEN_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::= <<
<<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:
<paths:{ alt <it.alt> via NFA path <it.states; separator=","><\n>}>
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator=","><\n>
<endif>
<if(disabled)><\n>As a result, token(s) <disabled; separator=","> were disabled for that

```
input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>
```

```
>>
```

```
LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
```

```
The following sets of rules are mutually left-recursive <listOfCycles: {c| [<c: {r|<r.name>}; separator=", ">]}; separator=" and ">
```

```
>>
```

```
NONREGULAR_DECISION(ruleName,alts) ::= <<
```

```
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts; separator=", ">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
```

```
>>
```

```
/* !10n for message levels */
```

```
warning() ::= "warning"
```

```
error() ::= "error"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/tool/templates/messages/languages/en.stg
```

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

```
/*
```

```
* [The "BSD licence"]
```

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```

```
* All rights reserved.
```

```
*
```

```
* Conversion to C#:
```

```
* Copyright (c) 2008-2009 Sam Harwell, Pixel Mine, Inc.
```

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```

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*
```

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

group CSharp3 implements ANTLRCore;

```
csharpVisibilityMap ::= [  
  "private": "private",  
  "protected": "protected",  
  "public": "public",  
  "fragment": "private",  
  default: "private"  
]
```

```
/** The overall file structure of a recognizer; stores methods for rules  
* and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile( LEXER,PARSER,TREE_PARSER, actionScope, actions,  
  docComment, recognizer,  
  name, tokens, tokenNames, rules, cyclicDFAs,  
  bitsets, buildTemplate, buildAST, rewriteMode, profile,  
  backtracking, synpreds, memoize, numRules,  
  fileName, ANTLRVersion, generatedTimestamp, trace,  
  scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
// The variable 'variable' is assigned but its value is never used.
```

```
#pragma warning disable 219
```

```
// Unreachable code detected.
```

```
#pragma warning disable 162
```

```
<actions.(actionScope).header>
```

```
<@imports>
```

```
using System.Collections.Generic;
```

```
using Antlr.Runtime;
```

```
<if(TREE_PARSER)>
```

```
using Antlr.Runtime.Tree;
```

```
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
```

```
<endif>
```

```
using Stack = System.Collections.Generic.Stack<object>;
```

```
using List = System.Collections.IList;
```

```
using ArrayList = System.Collections.Generic.List<object>;
```

```
<if(backtracking)>
```

```
using Map = System.Collections.IDictionary;
```



```

using HashMap = System.Collections.Generic.Dictionary<object, object>;
<endif>
<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

} // namespace <actions.(actionScope).namespace>

<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
    filterMode, superClass="Lexer") ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<tokens:{public const int <it.name>=<it.type>;}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

// delegates
<grammar.delegates:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

public <grammar.recognizerName>() {}<!-- needed by subclasses !>
public <grammar.recognizerName>( ICharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}> )
: this( input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}> )
{
}
public <grammar.recognizerName>( ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>}> )
: base( input, state )
{
<if(memoize)>
<if(grammar.grammarIsRoot)>

```

```

    state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><! index from 1..n !>
<endif>
<endif>
    <grammar.directDelegates:
        { g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|, <p.delegateName()>}>,
this);}; separator="\n">
    <grammar.delegates:
        { g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
    <last(grammar.delegates):{ g|gParent = <g.delegateName()>;}>
    }
    public override string GrammarFileName { get { return "<fileName>"; } }

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
new SpecialStateTransitionHandler( specialStateTransition<dfa.decisionNumber> )<endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
    for ( ; )
    {
        if ( input.LA(1)==CharStreamConstants.EndOfFile )
        {

```

```

return Tokens.EndOfFile;
}
state.token = null;
state.channel = TokenChannels.Default;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
int m = input.Mark();
state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if ( state.failed )
{
input.Rewind(m);
input.Consume(); <! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
}
catch ( RecognitionException re )
{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}

public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
if ( state.backtracking > 1 )
base.Memoize( input, ruleIndex, ruleStartIndex );
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if ( state.backtracking > 1 )
return base.AlreadyParsedRule(input, ruleIndex);
}

```

```

return false;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="object", labelType, members, rewriteElementType,
    filterMode) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
internal static readonly string[] tokenNames = new string[] {
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};<\n>
<endif>
<tokens:{public const int <it.name>=<it.type>;}; separator="\n">

// delegates
<grammar.delegates:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>( <inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>>> )
: this( input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>> )
{
}
}
public <grammar.recognizerName>( <inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>>> )
: base( input, state )
{
<parserCtorBody()>
<grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>>},
this);}; separator="\n">

```

```

<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}
separator="\n">
<last(grammar.delegates):{glgParent = <g:delegateName()>;}>
}
<@end>

```

```

public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

```

```
<members>
```

```

#region Rules
<rules; separator="\n\n">
#endregion Rules

```

```

<if(grammar.delegatedRules)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<!throws RecognitionException !>{\{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribute:
es:{a|<a.name>; separator=", ">}; \}}; separator="\n">
#endregion Delegated rules<\n>
<endif>

```

```
<insertSynpreds(synpreds)>
```

```

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

```

```

protected override void InitDFAs()
{
base.InitDFAs();
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
new SpecialStateTransitionHandler( specialStateTransition<dfa.decisionNumber> )<endif> );}; separator="\n">
}

```

```

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA<\n>
<endif>

```

```

<if(bitsets)>
#region Follow sets
private static class Follow

```

```

{
  <bitsets:bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>
}
#endregion Follow sets<\n>
<endif>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
  ASTLabelType="object", superClass="Parser", labelType="IToken",
  members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
  numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="object",
  superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
  members={<actions.treeparser.members>},
  filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public <!final !>void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>><! throws

```

```

RecognitionException!>
{
  <ruleLabelDefs()>
  <if(trace)>
  traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
  try
  {
    <block>
  }
  finally
  {
    traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
  }
  <else>
  <block>
  <endif>
}
// $ANTLR end <ruleName>
>>

```

```

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

```

```

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
bool EvaluatePredicate( System.Action fragment )
{
  state.backtracking++;
  <@start()>
  int start = input.Mark();
  try
  {
    fragment();
  }
  catch ( RecognitionException re )
  {
    System.Console.Error.WriteLine("impossible: "+re);
  }
  bool success = !state.failed;
  input.Rewind(start);
  <@stop()>
  state.backtracking--;
  state.failed=false;
  return success;
}
#endregion Synpreds<\n>

```

```

<endif>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking>0 && AlreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
<csharpVisibilityMap.(ruleDescriptor.modifier)> <returnType()> <ruleName>(
<ruleDescriptor.parameterScope:parameterScope(scope=it)> )<! throws RecognitionException!>
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try
{
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n> }>
<else>
<if(!emptyRule)>

```



```

<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  catch ( RecognitionException re )
  {
    ReportError(re);
    Recover(input,re);
    <@setErrorReturnValue()>
  }<\n>
<endif>
<endif>
<endif>
  finally
  {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  }
  <@postamble()>
  return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch ( <e.decl> )
{
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { <it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());};

```

```

separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new
<it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();};
separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wil
dcardTreeListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<csharpVisibilityMap.(ruleDescriptor.modifier)> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally

```

```

{
  <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeCleanUp()>
  <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()<! throws RecognitionException!>
{
  <block><<\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ( alt<decisionNumber> )
{
  <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch ( alt<decisionNumber> )
{
  <alts:altSwitchCase()>
}
}
}

```

```

}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
for ( ; )
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:altSwitchCase()>
default:
if ( cnt<decisionNumber> >= 1 )
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:

```

```

;

<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
for ( ; ; )
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:altSwitchCase()>
default:
goto loop<decisionNumber>;
}
}

loop<decisionNumber>:
;

<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase() ::= <<
case <i>:

```

```

<@prealt(>
<it>
break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<

```

```

<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

```



```

matchSetUnchecked(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */

```

```

lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */

```

```

wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator="," ">);<\n>
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="," ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="," ">);
<checkRuleBacktrackFailure()>
<endif>

```

```

>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EndOfFile); <checkRuleBacktrackFailure()>
<labelType> <label> = new <labelType>(input, EndOfFile, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);
<else>
Match(EndOfFile); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenTypes.Down )
{
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> )
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}

```

```

>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
<@noViableAltException()>
throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>

```

```

<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> )
{
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> )
{
    <edges; separator="\n">
    default:
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
    <else>
    {
        <ruleBacktrackFailure()>
        NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
        <@noViableAltException()>
        throw nvae;
    }<\n>
    <endif>
} <\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> )
{
    <edges; separator="\n">
} <\n>

```

```
>>
```

```
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<  
switch ( input.LA(<k>) )  
{  
<edges; separator="\n"><\n>  
<if(eotPredictsAlt)>  
default:  
alt<decisionNumber>=<eotPredictsAlt>;  
break;<\n>  
<endif>  
<\n>  
>>
```

```
dfaEdgeSwitch(labels, targetState) ::= <<  
<labels:{ case <it>:}; separator="\n">  
{  
<targetState>  
}  
break;  
>>
```

```
// C y c l i c D F A
```

```
/** The code to initiate execution of a cyclic DFA; this is used  
* in the rule to predict an alt just like the fixed DFA case.  
* The <name> attribute is inherited via the parser, lexer, ...  
*/  
dfaDecision(decisionNumber,description) ::= <<  
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);  
>>
```

```
/* Dump DFA tables as run-length-encoded Strings of octal values.  
* Can't use hex as compiler translates them before compilation.  
* These strings are split into multiple, concatenated strings.  
* Java puts them back together at compile time thankfully.  
* Java cannot handle large static arrays, so we're stuck with this  
* encode/decode approach. See analysis and runtime DFA for  
* the encoding methods.  
*/
```

```
cyclicDFA(dfa) ::= <<  
class DFA<dfa.decisionNumber> : DFA  
{  
  
const string DFA<dfa.decisionNumber>_eotS =  
"<dfa.javaCompressedEOT; wrap="+\n\t\t\t"">;  
const string DFA<dfa.decisionNumber>_eofS =  
"<dfa.javaCompressedEOF; wrap="+\n\t\t\t"">;
```

```

const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\t">";
const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\t">";
const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t">";
const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\t">";
static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition:{s|<s; wrap="\n">}; separator=",\n">
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for ( int i=0; i < numStates; i++ )
{
DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
: base( specialStateTransition )
<endif>
{
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
}

```

```

this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}
public override string GetDescription()
{
return "<dfa.description>";
}
<@errorMethod()>
}<\n>
<if(dfa.specialStateSTs)>
int specialStateTransition<dfa.decisionNumber>( DFA dfa, int s, IIntStream _input )<! throws
NoViableAltException!>
{
<if(LEXER)>
IIntStream input = _input;
<endif>
<if(PARSER)>
ITokenStream input = (ITokenStream)_input;
<endif>
<if(TREE_PARSER)>
ITreeNodeStream input = (ITreeNodeStream)_input;
<endif>
int _s = s;
switch ( s )
{
<dfa.specialStateSTs:{state |
case <i0><! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">
}
<if(backtracking)>
if (state.backtracking>0) {state.failed=true; return -1;}<\n>
<endif>
NoViableAltException nvae = new NoViableAltException(dfa.GetDescription(), <dfa.decisionNumber>, _s, input);
dfa.Error(nvae);
throw nvae;
}<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFASState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)><! get next lookahead symbol to test edges, then rewind !>

```



```

int index<decisionNumber>_<stateNumber> = input.Index;
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)><<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{ o | ||<o> }>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)===<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>

```

>>

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\<=<upper>)"
```

```
setTest(ranges) ::= "<ranges; separator=\\\"\\\">"
```

// A T T R I B U T E S

```
attributeScope(scope) ::= <<
```

```
<if(scope.attributes)>
```

```
protected class <scope.name>_scope
```

```
{
```

```
<scope.attributes:{ public <it.decl>; }; separator="\n">
```

```
}
```

```
<if(scope.actions.scopeinit)>
```

```
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
```

```
{
```

```
<scope.actions.scopeinit>
```

```
}<\n>
```

```
<else>
```

```
partial void <scope.name>_scopeInit( <scope.name>_scope scope );
```

```
<endif>
```

```
<if(scope.actions.scopeafter)>
```

```
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
```

```
{
```

```
<scope.actions.scopeafter>
```

```
}<\n>
```

```
<else>
```

```
partial void <scope.name>_scopeAfter( <scope.name>_scope scope );
```

```
<endif>
```

```
protected Stack<<<scope.name>_scope> <scope.name>_stack = new Stack<<<scope.name>_scope>();<\n>
```

```
<endif>
```

```
>>
```

```
globalAttributeScope(scope) ::= <<
```

```
<attributeScope(...)>
```

```
>>
```

```
ruleAttributeScope(scope) ::= <<
```

```
<attributeScope(...)>
```

```
>>
```

```
returnStructName() ::= "<it.name>_return"
```

```
returnType() ::= <<
```

```
<if(ruleDescriptor.hasMultipleReturnValues)>
```

```
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
```

```

<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public <!static !>class <ruleDescriptor:returnStructName()> :

```

```

<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
{
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like { $function.size()>0 && $function::name.equals("foo") }?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>

```

```

(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.Start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.Stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?((<ASTLabelType><scope>.Tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):null)

```

```

<else>
(<scope>!=null?input.ToString(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.st:null"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(<scope>!=null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(<scope>!=null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"(<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"(<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::=
"(<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::=
"(<scope>!=null?<scope>.Text:null)"

lexerRuleLabelPropertyRef_int(scope,attr) ::=
"(<scope>!=null?Integer.valueOf(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<labelType>)retval.Start"
rulePropertyRef_stop(scope,attr) ::= "(<labelType>)retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "(<ASTLabelType>)retval.Tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString(retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"

```

```

lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64: { <it>UL }; separator="," > }); <n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/CSharp3/CSharp3.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD licence"]
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```

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*/

/** Templates for building ASTs during normal parsing.

*

- * Deal with many combinations. Dimensions are:
- * Auto build or rewrite
- * no label, label, list label (label/no-label handled together)
- * child, root
- * token, set, rule, wildcard

*

- * The situation is not too bad as rewrite (->) usage makes ^ and !
- * invalid. There is no huge explosion of combinations.

*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));

>>

// TOKEN AST STUFF

/** ID and output=AST */

tokenRef(token,label,elementIndex,hetero) ::= <<


```

<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code

```

```

// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>;)}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0
= (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>ADAPTOR->addChild(ADAPTOR, root_0,
<label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR-
>becomeRoot(ADAPTOR, <label>.tree, root_0));
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>

```

```

<listLabelAST(...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelAST(...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelAST(...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>New(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp(...)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{<\n>

```

```

<endif>
<if(!ruleDescriptor.isSynPred)>
    retval.stop = LT(-1);<\n>
<endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
    <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
    <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<if(backtracking)>
}
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-
jar/org/antlr/codegen/templates/C/ASTParser.stg

```

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

```

/*

```

```

[The "BSD licence"]

```

```

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```

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```

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```

*/

```

Found in path(s):

* /opt/cola/permits/1147456844_1617040941.04/0/antlr-3-2-sources-1-jar/org/antlr/codegen/Perl5Target.java

1.173 libcap-ng 0.6.4-3.el6_0.1

1.173.1 Available under license :

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Version 2.1, February 1999

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Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

Chandler Carruth <chandlerc@google.com>

Chris Prince <cprince@google.com>

Chris Taylor <taylorc@google.com>

Dan Egnor <egnor@google.com>

Eric Roman <eroman@chromium.org>

Hady Zalek <hady.zalek@gmail.com>

Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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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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```
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man end
@c man begin COPYRIGHT
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```
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@end ignore
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@c man begin DESCRIPTION
```

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```
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@var{one line to give the program'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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```
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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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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:

@enumerate a

@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

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.)

@end enumerate

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.

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.

@item

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

@item

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.

@item

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.

@item

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:

@enumerate a

@item

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.)

@item

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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

@end enumerate

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. 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.

@smallexample

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

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

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

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

Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is

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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

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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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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 writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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:

- a) The modified work must itself be a software library.

- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

- 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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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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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.

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:

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

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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.177 javax-ws-rs-api 2.0-m10

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```

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```
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
```


jar/javax/ws/rs/core/Form.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/Client.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/WebTarget.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/Uri.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/SyncInvoker.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/ext/ReaderInterceptor.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/Entity.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/NameBinding.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/ClientFactory.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/MessageProcessingException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/ext/InterceptorContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/core/Feature.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/ext/WriterInterceptorContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/BindingPriority.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/ext/WriterInterceptor.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/container/ResourceInfo.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/AsyncInvoker.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/Invocation.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/InvocationCallback.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/core/MultivaluedHashMap.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/ext/ReaderInterceptorContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/container/DynamicFeature.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/client/Configuration.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-
jar/javax/ws/rs/core/Link.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-

jar/javax/ws/rs/client/ClientException.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-

jar/javax/ws/rs/client/package-info.java

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jar/javax/ws/rs/BeanParam.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/BadRequestException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ServerErrorException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/client/ClientResponseContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ContainerResponseFilter.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/client/ClientResponseFilter.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/NotAcceptableException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/NotAuthorizedException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ValidationError.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/RedirectionException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/CompletionCallback.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/Configurable.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/Suspended.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ext/ParamConverterProvider.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ConnectionCallback.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/NotAllowedException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ext/ParamConverter.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/AsyncResponse.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ResourceContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/InternalServerErrorException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/TimeoutHandler.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ResumeCallback.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ServiceUnavailableException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ClientErrorException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/client/ClientRequestContext.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ContainerRequestFilter.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/client/ClientRequestFilter.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ContainerResponseContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/AbstractMultivaluedMap.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/PreMatching.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ConstrainedTo.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/NotFoundException.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/ContainerRequestContext.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/container/package-info.java
* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/NotSupportedException.java

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- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/QueryParam.java
- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ext/ContextResolver.java
- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/PathParam.java
- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/POST.java
- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/UriInfo.java
- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/CookieParam.java
- * /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/GenericType.java
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* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ext/MessageBodyReader.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/ext/RuntimeDelegate.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/DefaultValue.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/Consumes.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/package-info.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/Encoded.java

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* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/NewCookie.java

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* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/WebApplicationException.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/Request.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/HttpMethod.java

* /opt/cola/permits/1110676684_1654022867.5005686/0/javax-ws-rs-api-2-0-m10-sources-1-jar/javax/ws/rs/core/MultivaluedMap.java

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1.181 libxfont 1.4.5-5.el6_7

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```
/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */
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1.182 commons-http-client 2.0 rc2

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 * $Revision: 1.4 $
 * $Date: 2003/01/27 15:28:26 $
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1.183 commons-logging 1.2

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* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
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jar/org/apache/commons/logging/impl/package.html
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* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/SimpleLog.java

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* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

```
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/LogSource.java
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* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

1.184 commons-codec 1.4

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1.186 zlib 1.2.5

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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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1.187 tomcat-coyote 9.0.37

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1.189 asm 5.2

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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):

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jar/org/objectweb/asm/commons/GeneratorAdapter.java

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jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/xml/SAXClassAdapter.java

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* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/commons/package.html
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
jar/org/objectweb/asm/signature/package.html
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* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/Attribute.java
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* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/optimizer/NameMapping.java
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* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-

jar/org/objectweb/asm/tree/ParameterNode.java

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signatures.properties

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jar/org/objectweb/asm/optimizer/shrink.properties

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*/

/**

* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this

```

* constructor</i>. Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
*
* @param owner
*     the owner's class name.
* @param access
*     the method's access flags (see { @link Opcodes}).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type Type}).
* @param mv
*     the method visitor to which this adapter delegates calls. May
*     be <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
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```

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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/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
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*/

```
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */
```

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`/opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/util/Textifier.java`

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 */
```

```
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
```

* If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-jar/org/objectweb/asm/tree/ClassNode.java

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*/

/**

* Creates a new JSRInliner. <i>Subclasses must not use this

* constructor</i>. Instead, they must use the

* {[@link #JSRInlinerAdapter\(int, MethodVisitor, int, String, String, String, String\[\]\)](#)}

* version.

*

* @param mv

* the `MethodVisitor` to send the resulting inlined

* method code to (use `null` for none).

* @param access

* the method's access flags (see {[@link Opcodes](#)}). This

* parameter also indicates if the method is synthetic and/or

```

*      deprecated.
* @param name
*      the method's name.
* @param desc
*      the method's descriptor (see { @link Type}).
* @param signature
*      the method's signature. May be <tt>null</tt>.
* @param exceptions
*      the internal names of the method's exception classes (see
*      { @link Type#getInternalName() getInternalName}). May be
*      <tt>null</tt>.
* @throws IllegalStateException
*      If a subclass calls this constructor.
*/

```

Found in path(s):

```
* /opt/cola/permits/1136026239_1613657838.95/0/asm-all-5-2-sources-
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- * <https://git.eclipse.org/c/platform/eclipse.platform.team.git>
- * <https://git.eclipse.org/c/platform/eclipse.platform.text.git>
- * <https://git.eclipse.org/c/platform/eclipse.platform.ua.git>
- * <https://git.eclipse.org/c/platform/eclipse.platform.ui.git>
- * <https://git.eclipse.org/c/platform/eclipse.platform.ui.tools.git>

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getActionsnewPermissionCollection()Ljava/lang/String;  
getName(Ljava/lang/Object;)Zjava/security/GuardtoStringjava/security/Permissionjava/io/Serializable  
checkGuard  
(Ljava/lang/Object;)V(Ljava/security/Permission;)Z!
```

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<?pde version="3.5"?>
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</launcherArgs>
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<launcher>
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  <bmp/>
</win>
</launcher>

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</vm>

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  <text>
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  </text>
</license>

<plugins>
</plugins>

</product>
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* $Revision: 1.2 $
* $Date: 2003/04/06 20:37:31 $
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* =====
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JUnit

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* <http://git.eclipse.org/c/jdt/eclipse.jdt.core.binaries.git>

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* http://git.eclipse.org/c/jdt/eclipse.jdt.debug.git
* http://git.eclipse.org/c/jdt/eclipse.jdt.git
* http://git.eclipse.org/c/jdt/eclipse.jdt.ui.git
(Ljava/lang/Object;)VgetName(Ljava/lang/String;(Ljava/lang/Object;)Z()I
getActions<init>(Ljava/lang/String;)Vjava/security/Guard(Ljava/security/Permission;)Z
java/lang/Objectjava/io/Serializable
checkGuardnewPermissionCollectionhashCodeequals
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(Ljava/lang/String;Ljava/lang/Objectequals(Ljava/lang/Object;)ZtoStringjava/security/acl/Permission
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java/lang/Objectjava/security/acl/Permission()Ljava/lang/String;equals(Ljava/lang/Object;)ZtoString

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getActions  
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java/security/Guardjava/security/Permissionjava/io/Serializable  
checkGuard(Ljava/lang/Object;)V(Ljava/security/Permission;)Z!
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```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<?pde version="3.5"?>
```

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<product name="Product With License" uid="licenseIU.product" useFeatures="false" includeLaunchers="true">
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```
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</configIni>

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</launcherArgs>

<launcher>
  <solaris/>
  <win useIco="false">
    <bmp/>
  </win>
</launcher>

<vm>
</vm>

<plugins>
</plugins>

</product>
```

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<init>()

java/lang/Object(Ljava/lang/String;)V equals

implies&()Ljava/security/PermissionCollection;

getActionshashCodenewPermissionCollection()Ljava/lang/String; getName(Ljava/lang/Object;)Z java/security/Guard toString java/security/Permission java/io/Serializable

checkGuard(Ljava/lang/Object;)V(Ljava/security/Permission;)Z !

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*/

```
<init>()Ljava/lang/Object(Ljava/lang/String;)Vequalsimplies&()Ljava/security/PermissionCollection;hashCode
getActions newPermissionCollection(Ljava/lang/String;
getName(Ljava/lang/Object;)ZtoStringLjava/security/Permissionjava/io/Serializable(Ljava/security/Permission;)Z
!
```

```
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```

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```
<init>()Ljava/lang/Object(Ljava/lang/String;)Vequalsimplies&()Ljava/security/PermissionCollection;hashCode  
getActions  
newPermissionCollection()Ljava/lang/String;getName(Ljava/lang/Object;)Z  
java/security/GuardtoStringjava/security/Permissionjava/io/Serializable  
checkGuard(Ljava/lang/Object;)V(Ljava/security/Permission;)Z!
```

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/support/AnnotationControllerTypePredicate.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/xslt/AbstractXsltView.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/support/ControllerBeanNameHandlerMapping.java
```

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```
*/
```

```
/**
```

```
* A contract for inspecting and potentially modifying request data values such
```

```
* as URL query parameters or form field values before they are rendered by a
```

```
* view or before a redirect.
```

```
*
```

```
* <p>Implementations may use this contract for example as part of a solution
```

```
* to provide data integrity, confidentiality, protection against cross-site
```

```
* request forgery (CSRF), and others or for other tasks such as automatically
```

```
* adding a hidden field to all forms and URLs.
```

```
*
```

```
* <p>View technologies that support this contract can obtain an instance to
```

```
* delegate to via { @link RequestContext#getRequestDataValueProcessor()}.
```

```
*
```

```
* @author Rossen Stoyanchev
```

```
* @since 3.1
```

```
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsHtmlView.java
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ava
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- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/tags/form/SelectTag.java
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jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsMultiFormatView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsViewResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/HandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/OptionTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/ModelAndView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-

jar/org/springframework/web/servlet/view/tiles2/TilesConfigurer.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/ThemeResolver.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java

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- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodExceptionResolver.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/SmartView.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/annotation/ServletAnnotationMappingUtils.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerAdapter.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyMethodProcessor.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/HttpServletBean.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/RequestMethodRequestCondition.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistry.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
- * /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewMethodReturnValueHandler.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletCookieValueMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/FrameworkServlet.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/view/json/MappingJacksonJsonView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/ButtonTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-

jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.

java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-

jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java

* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-

jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java

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/**

* XSLT-driven View that allows for response context to be rendered as the

* result of an XSLT transformation.

*

* <p>The XSLT Source object is supplied as a parameter in the model and then

* { @link #locateSource detected } during response rendering. Users can either specify

* a specific entry in the model via the { @link #setSourceKey sourceKey } property or

* have Spring locate the Source object. This class also provides basic conversion

* of objects into Source implementations. See { @link #getSourceTypes() here }

* for more details.

*

* <p>All model parameters are passed to the XSLT Transformer as parameters.

* In addition the user can configure { @link #setOutputProperties output properties }

* to be passed to the Transformer.

*

* @author Rob Harrop

* @author Juergen Hoeller

* @since 2.0

*/

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/LocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/HandlerInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/HandlerInterceptorAdapter.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
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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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```
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:for-each>
    </xsl:with-param>
  </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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```

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1.203 cxf-rt-rs-security-oauth 2.7.4

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }
}
```

```

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

Apache CXF

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1.206 cxf-api 2.7.4

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**

* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;

}

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1.209 cxf-wstx-msv-validation 2.7.4

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1.210 xml-commons-resolver 1.2

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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

1.212 javax-annotation-api 1.1.fr

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1.213 jackson-mapper-asl 1.9.2

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* /opt/ws_local/PERMITS_SQL/1078377000_1597297561.19/0/jackson-mapper-asl-1-9-2-sources-1-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.214 libxfont 1.4.5-3.el6_5

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```
/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */
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1.215 oauth 20100527

1.216 spring-aop 3.1.4.RELEASE

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```
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/AopProxyUtils.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/autoprox/AutoProxyUtils.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/config/AopNamespaceUtils.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/Cglib2AopProxy.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/HotSwappableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/EmptyTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
```

jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/AopUtils.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/ProxyConfig.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/scope/ScopedProxyUtils.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/SingletonTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/config/AopConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/AopContext.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/TargetSource.java

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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java

* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java

* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java

* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java

* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java

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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/MethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/config/PointcutComponentDefinition.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/IntroductionAdvisor.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/AopProxy.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/RawTargetAccess.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/AfterAdvice.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/target/LazyInitTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/AopProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/config/AspectEntry.java

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jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
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jar/org/springframework/aop/config/AdvisorComponentDefinition.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/support/IntroductionInfoSupport.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java

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jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/PoolingConfig.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/RootClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/PointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/StaticMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/MethodBeforeAdvice.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/DynamicMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java

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jar/org/springframework/aop/config/PointcutEntry.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/AopConfigException.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/TruePointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/TrueClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/ExpressionPointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/ControlFlowPointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/config/AdvisorEntry.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
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jar/org/springframework/aop/config/AdviceEntry.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-
jar/org/springframework/aop/AopInvocationException.java

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1.222 antlr 2.7.7

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1.223 cxf-rt-bindings-soap 2.7.4

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1.224 Iua 5.1.5

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1.225 bind 9.8.2-0.68.rc1.el6_10.3

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-->

<!-- \$Id: copyright.xml,v 1.8 2009-07-10 23:47:58 tbox Exp \$ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<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>
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
  </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="/refentry/docinfo/copyright | /book/bookinfo/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: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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* `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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1.226 relaxng-datatype 1.0

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1.228 javassist 3.20.0-GA

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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/tools/reflect/Sample.java
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jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/CodeIterator.java

* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/CannotCreateException.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtClass.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/Callback.java
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jar/javassist/util/proxy/SerializedProxy.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/analysis/Analyzer.java
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jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
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jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-

jar/javassist/bytecode/annotation/StringMemberValue.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java

1.229 commons-fileupload 1.4

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1.230 axiom-dom 1.2.7

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1.241 struts2-bean-validation-plugin 2.5.22

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1.245 openssh 5.3p1

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* @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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1.246 libice 1.0.6-1.el6

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1.247 gawk 3.1.7-10.el6

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/* List of signals that are sent when an invalid virtual memory address is accessed, or when the stack overflows. */

```
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) \
{ int var; var = SIGSEGV; { body } var = SIGBUS; { body } }
```

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Version 3, 29 June 2007

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```

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```
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```

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```
/* Fault handler information. BSD Unix version.
```

```
Copyright (C) 2002 Bruno Haible <bruno@clisp.org>
```

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```
#define SIGSEGV_FAULT_HANDLER_ARGLIST int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS addr
    GNU GENERAL PUBLIC LICENSE
    Version 2, June 1991
```

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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Appendix: How to Apply These Terms to Your New Programs

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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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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

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proprietary programs. If your program is a subroutine library, you may
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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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 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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(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

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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 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

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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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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.248 xmlschema 1.4.2

1.248.1 Available under license :

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1.250 snmp-4j 2.3.4

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1.252 bean-validation-api 1.1.0.Final

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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ValidateOnExecution.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java

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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-
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```

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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolation.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Validator.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ReportAsSingleViolation.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMin.java
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- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Past.java
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- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Constraint.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
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- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/ValidationProvider.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidationProviderResolver.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/OverridesAttribute.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDeclarationException.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Min.java
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- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertTrue.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Valid.java
- * /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ConstraintDescriptor.java

* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Max.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Future.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java

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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/package-info.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/package-info.java
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AUTHOR

Peter Schaffter (df191@ncf.ca)
15, chemin Brunette
RR 2, CP 406
Ste-Ccile-de-Masham (Qubec)
CANADA

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Appendix: How to Apply These Terms to Your New Programs

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) 19yy <name of author>
```

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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) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.254 newt 0.52.11-3.el6

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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 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.

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

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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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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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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

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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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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 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

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1.258 libjpeg-turbo 1.2.1-3.el6_5

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONPojoConvertor.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/MultiException.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/LazyList.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/log/StdErrLog.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/thread/Timeout.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/URLResource.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONEnumConvertor.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSON.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/log/Logger.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/thread/ThreadPool.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ssl/SslContextFactory.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/JarResource.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/FileResource.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/security/CertificateValidator.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/log/Slf4jLog.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/statistic/CounterStatistic.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Atomics.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Loader.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Utf8StringBuilder.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/URIUtil.java

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/component/Destroyable.java

* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/component/Lifecycle.java

```
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/Attributes.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/resource/Resource.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/DateCache.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/MultiPartInputStream.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/preventers/AWTLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/thread/ShutdownThread.java
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```
/*
```

```
* @(#)UnixCrypt.java 0.9 96/11/25
```

```
*
```

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```

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*
```

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*/
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8
 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is
 appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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 **/

```

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/util/Utf8Appendable.java

```

1.261 cxf-tools-common 2.7.4

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1.262 ecj 4.4.2

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1.270 commons-collections 2.1

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 * $Header: /home/cvs/jakarta-
commons/collections/src/java/org/apache/commons/collections/TransformIterator.java,v 1.7 2002/10/12 22:15:18
scolebourne Exp $
 * $Revision: 1.7 $
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 *
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1.272 cxf-rt-transport-jms 2.7.4

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1.276 regexp 1.3

1.277 axis2-adb 1.6.2

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1.278 star 1.5-11.1.el6_5

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That's all there is to it!

```
#ident "@(#)Defaults.bsd-os3 1.2 07/05/08 "  
#####  
#  
# global definitions for BSD/OS Systems  
#  
#####  
#  
# Compiler stuff  
#  
#####  
#DEFCCOM= cc  
DEFCCOM= gcc  
  
#####  
#  
# Link mode for libraries that are part of the makefile system:  
# If DEFLINKMODE is set to "static", no dynamic linking will be used  
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used  
#  
#####  
DEFLINKMODE= static
```

```

#####
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
#####
CWARNOPTS=

DEFINCDIRS= $(SRCROOT)/include
#LDPATH= -L/opt/schily/lib
#RUNPATH= -R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR) Will probably not work

#####
#
# Installation config stuff
#
#####
INS_BASE= /opt/schily
INS_KBASE= /
#
DEFUMASK= 002
#
DEFINSMODEF= 444
DEFINSMODEX= 755
DEFINSUSR= bin
DEFINSGRP= bin
#ident "@(#)i386-bsd-os3-gcc.rul 1.12 07/05/09 "
#####
# Written 1998 by J. Schilling
#####
#
# Platform dependent MACROS for BSD/OS
#
#####
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#####
include $(SRCROOT)/$(RULESDIR)/rules.prg

```

```
#####
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS= -I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINES= -DKERNEL -D_KERNEL

#COPTDYN= -fpic
COPTDYN=

LIB_PREFIX= lib
LIB_SUFFIX= .a
#SHL_SUFFIX= .so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH= -lm
LIB_KVM=

#LDOPTS= $(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTS= $(LIBS_PATH) $(LDPATH)
#LDOPTDYN= -shared -Wl,-soname,$(TARGET)
#LNDYNLIB= @$$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
$(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=

# shlibc2 is not present on older or newer systems
#LDCC= @echo " ==> LINKING \"$$@\""; shlibc2
LDCC= @echo " ==> LINKING \"$$@\""; shlibc
#DYNLD= @echo " ==> LINKING dynamic library \"$$@\""; gcc
DYNLD=
RANLIB= @echo " ==> RANDOMIZING ARCHIVE \"$$@\""; ranlib
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Support shell scripts for the Schily Makefile system (CDDL)
DEFAULTS/
Default files for the Schily Makefile system (CDDL)
DEFAULTS_ENG/
```


Default files for the Schily Makefile system (CDDL)
inc/
Support C-Files for the Schily Makefile system (CDDL)
include/
Support H-Files for the Schily Makefile system (CDDL)
RULES/
The main part of the Schily Makefile system (CDDL)
TARGETS/
Slot support for the Schily Makefile system (CDDL)
TEMPLATES/
Template support for the Schily Makefile system (CDDL)

For more information on the CDDL read the file CDDL.Schily.txt
For more information on the GPL read the file GPL-2.0.txt
For more information on the LGPL read the file LGPL-2.1.txt

#ident "@(#)i386-bsd-os-gcc.rul 1.14 07/05/09 "

#####

Written 1998 by J. Schilling

#####

#

Platform dependent MACROS for BSD/OS

#

#####

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#####

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#

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#####

include \$(SRCROOT)/\$(RULESDIR)/rules.prg

#####

include \$(SRCROOT)/\$(RULESDIR)/cc-gcc.rul

OSDEFS +=

CPPOPTS= -I\$(ARCHDIR) -I\$(OINCSDIR) \$(INCDIRS:%=-I%) -I/sys \$(INCDIRSX:%=-I%) \$(OSDEFS)

KDEFINES= -DKERNEL -D_KERNEL

#COPTDYN= -fpic

COPTDYN=

```

LIB_PREFIX= lib
LIB_SUFFIX= .a
#SHL_SUFFIX= .so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH= -lm
LIB_KVM=

#LDOPTS= $(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTS= $(LIBS_PATH) $(LDPATH)
#LDOPTDYN= -shared -Wl,-soname,$(TARGET)
#LNDYNLIB= @$ (RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
$(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=

RANLIB= @echo " ==> RANDOMIZING ARCHIVE \"\$@\"; ranlib
#ident "@(#)os-bsd-os.def 1.2 06/05/14 "
#####
# Written 1998 by J. Schilling
#####
#
# Global os definitions for BSD/OS
#
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#####
MANSTYLE= bsd
#ident "@(#)Defaults.bsd-os 1.2 07/05/08 "
#####
#
# global definitions for BSD/OS Systems
#
#####
#
# Compiler stuff
#

```

```

#####
#DEFCCOM= cc
DEFCCOM= gcc

#####
#
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
#####
DEFLINKMODE= static

#####
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
#####
#CWARNOPTS=

DEFINCDIRS= $(SRCROOT)/include
#LDPATH= -L/opt/schily/lib
#RUNPATH= -R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR) Will probably not work

#####
#
# Installation config stuff
#
#####
#INS_BASE= /opt/schily
#INS_KBASE= /
INS_BASE= /tmp/schily
INS_KBASE= /tmp/schily/root
#
DEFUMASK= 002
#
DEFINSMODEF= 444
DEFINSMODEX= 755
DEFINSUSR= bin
DEFINSGRP= bin
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```

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```
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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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```
#ident "@(#)os-bsd-os.id 1.3 06/05/14 "
#####
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#####
#
# OS specific MACRO definitions for BSD/OS
#
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#####
_O_ARCH= $(OSREL:3.%=bsd-os3)
O_ARCH= $_O_ARCH:4.%=bsd-os)
-O_ARCH= -$(O_ARCH)
#ident "@(#)os-bsd-os3.def 1.2 06/05/14 "
#####
# Written 1998 by J. Schilling
#####
#
# Global os definitions for BSD/OS
#
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#####
MANSTYLE= bsd
#ident "@(#)i386-bsd-os3-cc.rul 1.12 07/05/09 "
#####
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#####
#
# Platform dependent MACROS for BSD/OS
#
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```

```

#
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#####
include $(SRCROOT)/$(RULESDIR)/rules.prg
#####
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS= -I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINES= -DKERNEL -D_KERNEL

#COPTDYN= -fpic
COPTDYN=

LIB_PREFIX= lib
LIB_SUFFIX= .a
#SHL_SUFFIX= .so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH= -lm
LIB_KVM=

#LDOPTS= $(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTS= $(LIBS_PATH) $(LDPATH)
#LDOPTDYN= -shared -Wl,-soname,$(TARGET)
#LNDYNLIB= @$ (RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
$(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=

# shlibc2 is not present on older or newer systems
#LDCC= @echo " ==> LINKING \"${@}\"; shlibc2
LDCC= @echo " ==> LINKING \"${@}\"; shlibc
#DYNLD= @echo " ==> LINKING dynamic library \"${@}\"; gcc
DYNLD=
RANLIB= @echo " ==> RANDOMIZING ARCHIVE \"${@}\"; ranlib
#ident @(#)man-bsd.def 1.2 06/05/14
#####
# Written 1997 by J. Schilling
#####
#
# Definition for manual sections on BSD based systems
#
#####
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```

```
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#####
```

```
MANSECT_CMD= man1
MANSECT_SYSCALL= man2
MANSECT_LIB= man3
MANSECT_FILEFORM= man5
MANSECT_HDR= man7
MANSECT_TABLES= man7
MANSECT_MACROS= man7
MANSECT_GAMES= man6
MANSECT_DEMOS= man6
MANSECT_DEVICE= man4
MANSECT_NETWORK= man4
MANSECT_ADMIN= man8
MANSECT_DRIVER= man4
```

```
MANSUFF_CMD= 1
MANSUFF_SYSCALL= 2
MANSUFF_LIB= 3
MANSUFF_FILEFORM= 5
MANSUFF_HDR= 7
MANSUFF_TABLES= 7
MANSUFF_MACROS= 7
MANSUFF_GAMES= 6
MANSUFF_DEMOS= 6
MANSUFF_DEVICE= 4
MANSUFF_NETWORK= 4
MANSUFF_ADMIN= 8
MANSUFF_DRIVER= 4
```

```
#ident "@(#)Defaults.bsd-os3 1.2 07/05/08 "
```

```
#####
#
# global definitions for BSD/OS Systems
#
#####
#
# Compiler stuff
#
```

```

#####
#DEFCCOM= cc
DEFCCOM= gcc

#####
#
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
#####
DEFLINKMODE= static

#####
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
#####
#CWARNOPTS=

DEFINCDIRS= $(SRCROOT)/include
#LDPATH= -L/opt/schily/lib
#RUNPATH= -R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR) Will probably not work

#####
#
# Installation config stuff
#
#####
#INS_BASE= /opt/schily
#INS_KBASE= /
INS_BASE= /tmp/schily
INS_KBASE= /tmp/schily/root
#
DEFUMASK= 002
#
DEFINSMODEF= 444
DEFINSMODEX= 755
DEFINSUSR= bin
DEFINSGRP= bin
#ident "@(#)Defaults.bsd-os 1.2 07/05/08 "
#####
#
# global definitions for BSD/OS Systems
#
#####
#

```

```

# Compiler stuff
#
#####
#DEFCCOM= cc
DEFCCOM= gcc

#####
#
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
#####
DEFLINKMODE= static

#####
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
#####
CWARNOPTS=

DEFINCDIRS= $(SRCROOT)/include
#LDPATH= -L/opt/schily/lib
#RUNPATH= -R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR) Will probably not work

#####
#
# Installation config stuff
#
#####
INS_BASE= /opt/schily
INS_KBASE= /
#
DEFUMASK= 002
#
DEFINSMODEF= 444
DEFINSMODEX= 755
DEFINSUSR= bin
DEFINSGRP= bin
#ident "@(#)i386-bsd-os-cc.rul 1.14 07/05/09 "
#####
# Written 1998 by J. Schilling
#####
#
# Platform dependent MACROS for BSD/OS
#

```

```

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#####
include $(SRCROOT)/$(RULESDIR)/rules.prg
#####
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS= -I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINES= -DKERNEL -D_KERNEL

#COPTDYN= -fpic
COPTDYN=

LIB_PREFIX= lib
LIB_SUFFIX= .a
#SHL_SUFFIX= .so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH= -lm
LIB_KVM=

#LDOPTS= $(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTS= $(LIBS_PATH) $(LDPATH)
#LDOPTDYN= -shared -Wl,-soname,$(TARGET)
#LNDYNLIB= @$$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
$(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=

RANLIB= @echo " ==> RANDOMIZING ARCHIVE \"$@\""; ranlib

```

1.279 tomcat-jasper-el 9.0.37

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1.280 cxf-tools-validator 2.7.4

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1.282 spring-beans 3.1.4.RELEASE

1.283 httpclient 4.3.2

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1.284 xz 4.999.9-0.5.beta.20091007git.el6

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1.285 cxf-services-ws-discovery-api 2.7.4

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1.287 libcap 2.16-5.5.el6

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1.288 spring-framework 3.1.4.RELEASE

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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/XMLStreamWriter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/LinkedMultiValueMap.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/env/EnvironmentCapable.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/convert/support/ConversionServiceFactory.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/support/SerializingConverter.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/DefaultDeserializer.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/PathMatcher.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/VfsPatternUtils.java

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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/StaxEventXMLReader.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/convert/support/StringToCollectionConverter.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/StaxStreamXMLReader.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/SystemPropertyUtils.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/Serializer.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/StaxUtils.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/WeakReferenceMonitor.java

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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/TypeUtils.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/support/SerializationFailedException.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/Deserializer.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/convert/ConversionException.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/StaxStreamContentHandler.java

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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/SimpleAliasRegistry.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/support/DeserializingConverter.java

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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/convert/ConverterNotFoundException.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/StopWatch.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/convert/ConversionFailedException.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/CollectionUtils.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/env/EnumerablePropertySource.java

* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/env/AbstractPropertyResolver.java

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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/support/GenericConversionService.java
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- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/NestedExceptionUtils.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/NamedInheritableThreadLocal.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/comparator/BooleanComparator.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/Log4jConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/task/TaskExecutor.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/DecoratingClassLoader.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/CommonsLogWriter.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/FileCopyUtils.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/AutoPopulatingList.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/NamedThreadLocal.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
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- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/DescriptiveResource.java
- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/comparator/ComparableComparator.java
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- * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/EncodedResource.java
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jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/type/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-

jar/org/springframework/core/NestedRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/enums/AbstractGenericLabeledEnum.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/util/xml/DomContentHandler.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/util/NumberUtils.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/enums/StaticLabeledEnumResolver.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/Conventions.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/enums/StaticLabeledEnum.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/util/xml/AbstractXMLReader.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/enums/AbstractLabeledEnum.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/NestedCheckedException.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/ConcurrentMap.java
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jar/org/springframework/core/NestedIOException.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/OverridingClassLoader.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/support/PropertiesToStringConverter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-

jar/org/springframework/util/CachingMapDecorator.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/util/CustomizableThreadCreator.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/enums/StringCodedLabeledEnum.java
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jar/org/springframework/core/task/SyncTaskExecutor.java
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jar/org/springframework/util/MultiValueMap.java
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jar/org/springframework/util/xml/StaxSource.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/convert/converter/ConverterRegistry.java
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jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
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jar/org/springframework/core/convert/converter/Converter.java
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jar/org/springframework/core/type/AnnotationMetadata.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/util/DigestUtils.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/type/ClassMetadata.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
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 * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/AttributeAccessor.java
 * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/ConstantException.java
 * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
 * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/InputStreamResource.java
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 * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
 * /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java

1.289 eclipse-ui 3.5.0.I20100601 0800

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* $Revision: 1.4 $
* $Date: 2003/01/27 15:28:26 $
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* \$Revision: 1.1 \$

* \$Date: 2002/06/06 10:31:17 \$

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 * \$Revision: 1.1 \$
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*

* Authors:

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*

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* include/arpa/nameser.h, include/sysqueue.h, lib/libisc/inet_aton.c,
lib/liblwres/herror.c, lib/liblwres/lwinetaton.c,
linux/include/openswan/radij.h, linux/net/ipsec/radij.c,
testing/utls/uml_netjig/getopt_long.c

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* lib/libdns/dst_internal.h

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* lib/libisc/inet_aton.c, lib/liblwres/lwinetaton.c

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* include/libbsdkey/libpfkey.h, lib/libbsdkey/*, lib/liblwres/getnameinfo.c

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lib/libcrypto/libdes/destest.c, lib/libcrypto/libblowfish/bf_skey.c,
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linux/net/ipsec/des/des_opts.c, linux/net/ipsec/des/ecb_enc.c,
linux/net/ipsec/des/set_key.c

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* include/crypto/cryptodev.h

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The author of this code is Angelos D. Keromytis (angelos@cis.upenn.edu)

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* lib/libcrypto/liboswcrypto/cryptodev.c

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The code was developed with source from the file: hw_cryptodev.c in the openssl package, and the file: ipsec_doi.c from the openswan package.

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* linux/include/openswan/pfkeyv2.h

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Harald Jenny and Rene Mayrhofer, 2010-03-27

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1.297 python 2.6.6-68.el6_10

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.. _history-and-license:

History and License

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 <https://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 <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	2.0+1.6.1	2001	PSF	no	
+-----+					
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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>

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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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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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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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cfuhash

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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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1.6	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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1.298 spring-oxm 3.1.4.RELEASE

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jar/org/springframework/oxm/UnmarshallingFailureException.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/config/XmlBeansMarshallerBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/xstream/XStreamUtils.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/mime/MimeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/support/MarshallingSource.java
```

* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/MarshallingException.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/Marshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/xmlbeans/XmlBeansMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/UncategorizedMappingException.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/support/SaxResourceUtils.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/MarshallingFailureException.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/ValidationFailureException.java
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* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/mime/MimeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/XmlMappingException.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/xmlbeans/XmlOptionsFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-jar/org/springframework/oxm/config/JibxMarshallerBeanDefinitionParser.java

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* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-

jar/org/springframework/oxm/jibx/JibxMarshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/castor/CastorMarshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
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jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
jar/org/springframework/oxm/xstream/XStreamMarshaller.java
* /opt/ws_local/PERMITS_SQL/1068640129_1594448067.69/0/spring-oxm-3-1-4-release-sources-
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1.299 axis2-adb 1.6.1

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1.300 axis2-transport-local 1.6.2

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```
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/framework/AopProxyFactory.java
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jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
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jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
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jar/org/springframework/aop/DynamicIntroductionAdvice.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/MethodMatchers.java
```

* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/Pointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/adaptor/AdvisorAdapterRegistry.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/support/Pointcuts.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/BeforeAdvice.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/adaptor/MethodBeforeAdviceAdapter.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/adaptor/MethodBeforeAdviceInterceptor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java

* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/AopProxy.java

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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
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jar/org/springframework/aop/support/DynamicMethodMatcher.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
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- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/target/EmptyTargetSource.java
- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
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- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/Cglib2AopProxy.java
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- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
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- * /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-

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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/ProxyFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/scope/DefaultScopedObject.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-

jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/IntroductionInfoSupport.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/NameMatchMethodPointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-
jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java

* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/autoprox/BeanFactoryAdvisorRetrievalHelper.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/autoprox/AspectJAwareAdvisorAutoProxyCreator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/autoprox/target/AbstractBeanFactoryBasedTargetSourceCreator.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/ThrowsAdvice.java
* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java

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Found in path(s):

* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-

jar/org/springframework/aop/target/dynamic/Refreshable.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
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* /opt/cola/permits/1111238355_1606883085.05/0/spring-aop-3-0-7-release-sources-1-jar/org/springframework/aop/TargetSource.java

1.303 libssh2 1.4.2-3.el6_10.1

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```
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```

1.304 jtcs 1.2.2

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1.305 bind 9.8.2-0.68.rc1.el6_10.8

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<!-- \$Id: copyright.xml,v 1.8 2009-07-10 23:47:58 tbox Exp \$ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```
<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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```

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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="/refentry/docinfo/copyright | /book/bookinfo/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: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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```
$Id: COPYRIGHT,v 1.17.14.1 2011-02-22 06:34:47 marka Exp $
```

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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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1.306 linux-kernel 2.6.32

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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That's all there is to it!

Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>

for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>

for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>

for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>

for his AFC kernel thread

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for his LIRC infrared handler

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Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and
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Oliver Endriss <o.endriss@gmx.de>

for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>

for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

Augusto Cardoso <augusto@carhil.net>

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for his work on the budget drivers, the demux code,
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for his work on calculating and checking the crc's for the
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Andreas 'randy' Weinberger

for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>

for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>

for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>

for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

/* 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.

* <http://www.hypermall.com/>

* 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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 * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
 *
 * M. Welsh, 6 July 1996
 *
 *
 */

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1.307 zenity 2.28.0

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1.308 binutils 2.20.51

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@end enumerate

@page

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```
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```
@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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```

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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 derivative of the original library, and the ordinary General Public License treats it as such.

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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.

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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.

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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.

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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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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.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while

synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.309 pango 1.28.1-11.el6

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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.

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.

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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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1.310 xmltooling 1.4.4

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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/signature/SignatureTrustEngine.java
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/schema/impl/XSAnyBuilder.java

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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/security/credential/criteria/EvaluableX509DigestCredentialCriteria.java
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/signature/validator/SPKIDataSchemaValidator.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoImpl.java

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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/security/keyinfo/provider/KeyInfoReferenceProvider.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/signature/DEREncodedKeyValue.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/encryption/impl/KANonceBuilder.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/security/apache/xml/security/Constants.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/AbstractElementExtensibleXMLObject.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/Configuration.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/encryption/KeyEncryptionParameters.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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jar/org/opensaml/xml/schema/XSString.java
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/security/SecurityException.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
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jar/org/opensaml/xml/schema/validator/XSIntegerSchemaValidator.java
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* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/encryption/impl/KeyReferenceImpl.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/parse/XMLParserException.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/schema/impl/XSStringBuilder.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/ConfigurationException.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/parse/ClasspathResolver.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/security/SecurityConfiguration.java
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
jar/org/opensaml/xml/signature/impl/X509CertificateImpl.java

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Schema for XML Signatures

<http://www.w3.org/2000/09/xmldsig#>

\$Revision: 1.2 \$ on \$Date: 2005/06/03 03:09:54 \$ by \$Author: cantor \$

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*/

/**

* Encodes and decodes to and from Base64 notation.

*

* <p>

* Change Log:

* </p>

*

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
for reading

* and writing to and from files.

* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
* EBCDIC).

* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.

* The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.

* Generally things are cleaner. You'll probably have to change some method calls that you were making to support
the

* new options format (<tt>int</tt>s that you "OR" together).

* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using

* <tt>decode(String s, boolean gzipCompressed)</tt>. Added the ability to "suspend" encoding in the Output
Stream

* so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an
XML

* file).

* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP

* streams. Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
*
*
* <p>
* I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or
* warranties but with plenty of well-wishing instead! Please visit <a
* href="http://iharder.net/base64">http://iharder.net/base64 periodically to check for updates or to contribute
* improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

Found in path(s):

* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/util/Base64.java

1.311 cxf-services-ws-discovery-service 2.7.4

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1.312 wstx-asl 3.2.4

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*

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1.315 cxf-rt-frontend-jaxws 2.7.4

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1.318 apache-log4j 1.2.15

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/TypeUtils.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Mixin.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/CodeEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/AbstractClassLoader.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Proxy.java
```


* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastMethod.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MethodDelegate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/MethodWrapper.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMap.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MulticastDelegate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodProxy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMapEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClass.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/DebuggingClassWriter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerChain.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/NoOpGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassFilterTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedValueGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/KeyFactory.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/ImmutableBean.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanCopier.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/DefaultNamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/EmitUtils.java

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassInfo.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddInitTransformer.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-

jar/net/sf/cglib/core/MethodInfoTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/InterfaceMaker.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/CallbackInfo.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptor.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Factory.java

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jar/net/sf/cglib/util/ParallelSorter.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java

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jar/net/sf/cglib/proxy/InvocationHandler.java

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassReaderGenerator.java
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1.321 bzip2 1.0.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.322 httpclient 4.5.1

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1.323 json-smart 2.1.1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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
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From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]

by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100

Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])

by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB

for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Received: (from gsf@localhost)

by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112

for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)

From: Glenn Fowler <gsf@research.att.com>

Message-Id: <200603011923.OAA86112@raptor.research.att.com>

Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: 1JF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.325 xalan 2.7.0

1.325.1 Available under license :

Apache License

Version 2.0, January 2004

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1.326 perl 5.10.1

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

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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```

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```

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

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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The End

```
#!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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1.327 xmlsec-java 1.5.4

1.327.1 Available under license :

xml-commons/java/external/README.dom.txt \$Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas \$

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The actual DOM Java Language Binding classes in xml-commons came from:
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The specification of DOM Level 3's various parts is at:
<http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/>
<http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/>
<http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/>

The specification of DOM Level 2's various parts is at:
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/>
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>
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<http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html>

Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
<http://www.w3.org/Style/CSS/SAC/>
<http://www.w3.org/2002/06/sacjava-1.3.zip>

The actual DOM Java Language Binding classes for SMIL came from:
<http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/>

(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:

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```

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Contributing Author(s):

Dave Raggett <dsr@w3.org>
Andy Quick <ac.quick@sympatico.ca> (translation to Java)
Gary L Peskin <garyp@firstech.com> (Java development)
Sami Lempinen <sami@lempinen.net> (release management)

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1.342 httpcomponents-client 4.2.1

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1.343 jsr311-api 1.1.1

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```

Found in path(s):

```
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/core/Request.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/RuntimeDelegate.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/ContextResolver.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/FactoryFinder.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ApplicationPath.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/MessageBodyWriter.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/core/StreamingOutput.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/core/Response.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/MessageBodyReader.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/Providers.java  
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/ext/ExceptionMapper.java
```


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```

Found in path(s):

```
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-
jar/javax/ws/rs/core/GenericEntity.java
```

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- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/POST.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Path.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/MatrixParam.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/WebApplicationException.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/DELETE.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Application.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/GET.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Cookie.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/Provider.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/QueryParam.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/UriBuilderException.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/FormParam.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Produces.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/CacheControl.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Variant.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/MediaType.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/SecurityContext.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Encoded.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/OPTIONS.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/UriInfo.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/PathSegment.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Context.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/CookieParam.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/EntityTag.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/HttpMethod.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Consumes.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/HEAD.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/HttpHeaders.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/MultivaluedMap.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/UriBuilder.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/DefaultValue.java
- * /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/PUT.java

```
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-
jar/javax/ws/rs/HeaderParam.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-
jar/javax/ws/rs/core/NewCookie.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/PathParam.java
```

1.344 apache-log4j 1.2.8

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*/

1.345 jackson 1.8.5

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```

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```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/util/ByteArrayBuilder.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/JsonParser.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/JsonFactory.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/JsonStreamContext.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/Base64Variant.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-jar/org/codehaus/jackson/Base64Variants.java
```

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-
```

1.346 Im-sensors 3.1.1-17.el6

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Here is a list of the main contributors to lm-sensors version 3.

* 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.

1.347 pam 1.1.1-20.el6_7.1

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* /opt/cola/permits/1000018032_1654022968.5253847/0/javax-websocket-api-1-1-sources-2-jar/javax/websocket/CloseReason.java
* /opt/cola/permits/1000018032_1654022968.5253847/0/javax-websocket-api-1-1-sources-2-jar/javax/websocket/server/HandshakeRequest.java
* /opt/cola/permits/1000018032_1654022968.5253847/0/javax-websocket-api-1-1-sources-2-jar/javax/websocket/Endpoint.java
* /opt/cola/permits/1000018032_1654022968.5253847/0/javax-websocket-api-1-1-sources-2-jar/javax/websocket/ClientEndpoint.java
* /opt/cola/permits/1000018032_1654022968.5253847/0/javax-websocket-api-1-1-sources-2-jar/javax/websocket/server/ServerApplicationConfig.java
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1.349 spring-web 3.1.4.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/support/ServletContextPropertyPlaceholderConfigurer.java

* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java

* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java

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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/request/RequestContextListener.java

* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/remoting/caucho/HessianServiceExporter.java

* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/annotation/RequestPart.java

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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java

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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
jar/org/springframework/http/converter/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
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jar/org/springframework/remoting/httpinvoker/AbstractHttpInvokerRequestExecutor.java
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jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-
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jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
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jar/org/springframework/web/bind/support/SimpleSessionStatus.java

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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/jsf/WebApplicationContextVariableResolver.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/request/SessionScope.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/annotation/ModelAttribute.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/request/RequestScope.java
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/HttpRequestHandler.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/multipart/MultipartException.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/multipart/MultipartResolver.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/support/SessionStatus.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/filter/CharacterEncodingFilter.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
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- * /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
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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.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
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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      License, v. 2.0. If a copy of the MPL was not distributed with this
      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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1.356 libvorbis 1.2.3-4.el6_2.1

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1.357 commons-logging 1.0.3

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1.358 libusb-compat 0.1.12-23.el6

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1.359 log-rotate 3.7.8

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Found in path(s):

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/NullCompletor.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReaderInputStream.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReader.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ArgumentCompletor.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/UnixTerminal.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ANSIBuffer.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/WindowsTerminal.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/FileNameCompletor.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CursorBuffer.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/History.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/UnsupportedTerminal.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ClassNameCompletor.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/MultiCompletor.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-

jar/jline/CandidateCycleCompletionHandler.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleRunner.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/SimpleCompletor.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CompletionHandler.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleOperations.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-

jar/jline/CandidateListCompletionHandler.java

* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/Completor.java

1.361 joda-time 2.8.1

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```

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT

- port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
 10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
 11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
 12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
 13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
 15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
 16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
 17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
 18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
 20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
 21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
 22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
 23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
 24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
 25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
 26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
 28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
 29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
 30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
 31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
 32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
 33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
 34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
 35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
 36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers:

- Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
audio clock drivers: CHU, WWV/H, IRIG
37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
 38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
 39. [42]Tom Moore <tmooore@fiemel.daytonoh.ncr.com> i386 svr4 port
 40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
 41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
 42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
 43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
 44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
 45. [49]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
 46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
 48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
 49. [53]Michael Shields <shields@tembel.org> USNO clock driver
 50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
 52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
 53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
 54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
 55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
-

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me

12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
15. mailto:casey@csc.co.za
16. mailto:%20Sven_Dietrich@trimble.COM
17. mailto:%20dundas@salt.jpl.nasa.gov
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de
19. mailto:%20dennis@mrbill.canet.ca
20. mailto:%20jhay@icomtek.csir.co.za
21. mailto:%20davehart@davehart.com
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23. mailto:%20glenn@herald.usask.ca
24. mailto:%20iglesias@uci.edu
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42. mailto:%20tmoore@fievel.daytonoh.ncr.com
43. mailto:%20kamal@whence.com
44. mailto:%20derek@toybox.demon.co.uk
45. mailto:%20d@hd.org
46. mailto:%20neal@ntp.org
47. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
48. mailto:%20dirce@zk3.dec.com
49. mailto:%20wsanchez@apple.com
50. mailto:%20mrapple@quack.kfu.com
51. mailto:%20jack@innovativeinternet.com
52. mailto:%20schnitz@unipress.com
53. mailto:%20shields@tembel.org
54. mailto:%20pebbles.jpl.nasa.gov
55. mailto:%20harlan@pfcs.com
56. mailto:%20ken@sdd.hp.com
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58. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

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```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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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 Library General Public License instead of this License.

1.369 polkit 0.96-11.el6_10.1

1.369.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide

complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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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 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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

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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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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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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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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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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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1.370 jax-ws-api 2.1

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1.372 libusb 1.0.9-0.6.rc1.el6

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1.373 tomcat-websocket-api 9.0.37

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1.381 geronimo-stax-api 1.0.1

1.382 gzip 1.3.12-22.el6

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1.383 cxf-tools-wsdlto-frontend-jaxws 2.7.4

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1.384 python 2.6.6

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Original version written by Greg Stein (gstein@lyra.org)
and Bill Tutt (rassilon@lima.mudlib.org)
February 1997.

Modifications and improvements for Python 2.0 by Jeremy Hylton and
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#


```
# Some fixes to try to have correct line number on almost all nodes
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Mersenne Twister

The `:mod:'_random'` module includes code based on a download from <http://www.math.keio.ac.jp/matsumoto/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.keio.ac.jp/matsumoto/emt.html>

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Sockets

The `:mod:'socket'` module uses the functions, `:func:'getaddrinfo'`, and
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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 Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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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=====

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.

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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

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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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```

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/* microprotocols.c - minimalist and non-validating protocols implementation

*

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*/
/* Random objects */

/* -----
The code in this module was based on a download from:
<http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html>

It was modified in 2002 by Raymond Hettinger as follows:

- * the principal computational lines untouched except for tabbing.
- * renamed `genrand_res53()` to `random_random()` and wrapped
in python calling/return code.
- * `genrand_int32()` and the helper functions, `init_genrand()`
and `init_by_array()`, were declared static, wrapped in
Python calling/return code. also, their global data
references were replaced with structure references.
- * unused functions from the original were deleted.
new, original C python code was added to implement the
`Random()` interface.

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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/* zlib.h -- interface of the 'zlib' general purpose compression library
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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://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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# based on bdist_wininst  
-----  
-- abs.decTest -- decimal absolute value                    --  
-- Copyright (c) IBM Corporation, 1981, 2008. All rights reserved. --  
-----  
/* -----
```

unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
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```
----- */  
# ElementTree  
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $  
#  
# limited xinclude support for element trees  
#  
# history:
```

```
# 2003-08-15 fl created
# 2003-11-14 fl fixed default loader
#
# Copyright (c) 2003-2004 by Fredrik Lundh. All rights reserved.
#
# fredrik@pythonware.com
# http://www.pythonware.com
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# Module Name: dbShelve.py  
#  
# Description: A reimplementation of the standard shelve.py that  
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#  
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#
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#
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1.387 bc 1.06

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```
/* number.c: Implements arbitrary precision numbers. */  
/*
```

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Western Washington University

Bellingham, WA 98226-9062

*****/

```
#include <stdio.h>
```

```

#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg, ...));
_PROTOTYPE(void rt_error, (char *mesg, ...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
    temp->n_value = temp->n_ptr;
    memset (temp->n_ptr, 0, length+scale);
    return temp;
}

```

```
/* "Frees" a bc_num NUM. Actually decreases reference count and only  
frees the storage if reference count is zero. */
```

```
void  
bc_free_num (num)  
    bc_num *num;  
{  
    if (*num == NULL) return;  
    (*num)->n_refs--;  
    if ((*num)->n_refs == 0) {  
        if ((*num)->n_ptr)  
            free ((*num)->n_ptr);  
        (*num)->n_next = _bc_Free_list;  
        _bc_Free_list = *num;  
    }  
    *num = NULL;  
}
```

```
/* Initialize the number package! */
```

```
void  
bc_init_numbers ()  
{  
    _zero_ = bc_new_num (1,0);  
    _one_ = bc_new_num (1,0);  
    _one_->n_value[0] = 1;  
    _two_ = bc_new_num (1,0);  
    _two_->n_value[0] = 2;  
}
```

```
/* Make a copy of a number! Just increments the reference count! */
```

```
bc_num  
bc_copy_num (num)  
    bc_num num;  
{  
    num->n_refs++;  
    return num;  
}
```

```
/* Initialize a number NUM by making it a copy of zero. */
```

```
void  
bc_init_num (num)  
    bc_num *num;
```



```

{
*num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
_bc_rm_leading_zeros just moves the data "value" pointer to the
correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
/* We can move n_value to point to the first non zero digit! */
while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
}
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
char *n1ptr, *n2ptr;
int count;

/* First, compare signs. */
if (use_sign && n1->n_sign != n2->n_sign)
{
    if (n1->n_sign == PLUS)
return (1); /* Positive N1 > Negative N2 */
    else
return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
{
        /* Magnitude of n1 > n2. */

```

```

if (!use_sign || n1->n_sign == PLUS)
    return (1);
else
    return (-1);
}
else
{
    /* Magnitude of n1 < n2. */
    if (!use_sign || n1->n_sign == PLUS)
        return (-1);
    else
        return (1);
}
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
}

```

```

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
                {
                    /* Magnitude of n1 > n2. */
                    if (!use_sign || n1->n_sign == PLUS)
                        return (1);
                    else
                        return (-1);
                }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
                {
                    /* Magnitude of n1 < n2. */
                    if (!use_sign || n1->n_sign == PLUS)
                        return (-1);
                    else
                        return (1);
                }
    }
}

/* They must be equal! */
return (0);
}

```

```

/* This is the "user callable" routine to compare numbers N1 and N2. */

```

```

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

```

```

/* In some places we need to check if the number is negative. */

```

```

char
bc_is_neg (num)

```

```

    bc_num num;
    {
    return num->n_sign == MINUS;
    }

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
    {
    int count;
    char *nptr;

/* Quick check. */
    if (num == _zero_) return TRUE;

/* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

/* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
    }

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
    {
    int count;
    char *nptr;

/* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

/* Initialize */
    count = num->n_len + scale;

```

```

nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)
            *sumptr++ = 0;
    }

    /* Start with the fraction part. Initialize the pointers. */
    n1bytes = n1->n_scale;
    n2bytes = n2->n_scale;
    n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

    /* Add the fraction part. First copy the longer fraction.*/

```

```

if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
    { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
    { *sumptr-- = *n2ptr--; n2bytes--;}
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
{
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
}

/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

```

```

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is
returned. The signs of N1 and N2 are ignored. Also, N1 is
assumed to be larger than N2. SCALE_MIN is the minimum scale
of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
    min_len = MIN (n1->n_len, n2->n_len);
    min_scale = MIN (n1->n_scale, n2->n_scale);
    diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)
            *diffptr++ = 0;
    }

    /* Initialize the subtract. */
    n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale - 1);
    diffptr = (char *) (diff->n_value + diff_len + diff_scale - 1);

    /* Subtract the numbers. */
    borrow = 0;

    /* Take care of the longer scaled number. */
    if (n1->n_scale != min_scale)

```

```

{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
    val = - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
{
    val += BASE;
    borrow = 1;
}
    else
borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits than n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
{
    val = *n1ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
}
}

```



```

else
    borrow = 0;
    *diffptr-- = val;
}
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        /* Compare magnitudes. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            diff = _bc_do_sub (n2, n1, scale_min);
            diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
            break;
        case 0:
            /* They are equal! return zero! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            diff = bc_new_num (1, res_scale);
            memset (diff->n_value, 0, res_scale+1);
            break;

```

```

case 1:
    /* n2 is less than n1, subtract n2 from n1. */
    diff = _bc_do_sub (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
    break;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n2->n_sign;
            break;
        case 0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);

```

```

    break;
case 1:
    /* n2 is less than n1, subtract n2 from n1. */
    sum = _bc_do_sub (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = NULL;
    temp->n_value = value;
    return temp;
}

```

```

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
             int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;
}

/* A special adder/subtractor for the recursive divide and conquer
multiply algorithm. Note: if sub is called, accum must
be larger than what is being subtracted. Also, accum and val
must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *) (accum->n_value +

```

```

    accum->n_len + accum->n_scale - shift - 1);
valp = (signed char*)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
        *accp -= *valp-- + carry;
        if (*accp < 0) {
            carry = 1;
            *accp-- += BASE;
        } else {
            carry = 0;
        }
        accp--;
    }
    while (carry) {
        *accp -= carry;
        if (*accp < 0)
            *accp-- += BASE;
        else
            carry = 0;
    }
} else {
    /* Addition */
    while (count--) {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1)) {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
        }
        accp--;
    }
    while (carry) {
        *accp += carry;
        if (*accp > (BASE-1))
            *accp-- -= BASE;
        else
            carry = 0;
    }
}
}

```

/* Recursive divide and conquer multiply algorithm.

Based on

Let $u = u_0 + u_1 \cdot (b^n)$

Let $v = v_0 + v_1 \cdot (b^n)$

Then $uv = (B^{2n} + B^n) \cdot u_1 \cdot v_1 + B^n \cdot (u_1 - u_0) \cdot (v_0 - v_1) + (B^{n+1}) \cdot u_0 \cdot v_0$

B is the base of storage, number of digits in u_1, u_0 close to equal.

```
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
             int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits
        || ulen < MUL_SMALL_DIGITS
        || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen, 0, u->n_value);
    } else {
        u1 = new_sub_num (ulen-n, 0, u->n_value);
        u0 = new_sub_num (n, 0, u->n_value+ulen-n);
    }

    if (vlen < n) {
        v1 = bc_copy_num (_zero_);
        v0 = new_sub_num (vlen, 0, v->n_value);
    } else {
        v1 = new_sub_num (vlen-n, 0, v->n_value);
        v0 = new_sub_num (n, 0, v->n_value+vlen-n);
    }

    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;
```

```

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);

```

```

bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine. N2 times N1 is put into PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale, MAX(scale, MAX(n1->n_scale, n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
    pval->n_value = pval->n_ptr;
    pval->n_len = len2 + len1 + 1 - full_scale;
    pval->n_scale = prod_scale;
    _bc_rm_leading_zeros (pval);
    if (bc_is_zero (pval))
        pval->n_sign = PLUS;
    bc_free_num (prod);
    *prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;

```



```

{
int carry, value;
unsigned char *nptr, *rptr;

if (digit == 0)
    memset (result, 0, size);
else
    {
        if (digit == 1)
            memcpy (result, num, size);
        else
            {
                /* Initialize */
                nptr = (unsigned char *) (num+size-1);
                rptr = (unsigned char *) (result+size-1);
                carry = 0;

                while (size-- > 0)
                    {
                        value = *nptr-- * digit + carry;
                        *rptr-- = value % BASE;
                        carry = value / BASE;
                    }

                if (carry != 0) *rptr = carry;
            }
    }
}

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int scale1, val;
    unsigned int len1, len2, scale2, qdigits, extra, count;
    unsigned int qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;

```

```

unsigned int norm;

/* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;

/* Test for divide by 1. If it is we must truncate. */
if (n2->n_scale == 0)
{
    if (n2->n_len == 1 && *n2->n_value == 1)
    {
        qval = bc_new_num (n1->n_len, scale);
        qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
        memset (&qval->n_value[n1->n_len],0,scale);
        memcpy (qval->n_value, n1->n_value,
            n1->n_len + MIN(n1->n_scale,scale));
        bc_free_num (quot);
        *quot = qval;
    }
}

/* Set up the divide. Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

```

```

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2>len1)
qdigits = scale+1; /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;

```

```

else
    qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

/* Test qguess. */
if (n2ptr[1]*qguess >
    (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
    + num1[qdig+2])
{
    qguess--;
    /* And again. */
    if (n2ptr[1]*qguess >
        (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
        + num1[qdig+2])
        qguess--;
    }

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
            borrow = 1;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;

```

```

if (val > 9)
{
    val -= 10;
    carry = 1;
}
else
    carry = 0;
*ptr1-- = val;
}
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

```

```

/* Check for correct numbers. */
if (bc_is_zero (num2)) return -1;

/* Calculate final scale. */
rscale = MAX (num1->n_scale, num2->n_scale+scale);
bc_init_num(&temp);

/* Calculate it. */
bc_divide (num1, num2, &temp, scale);
if (quot)
    quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);

if (quot)
{
    bc_free_num (quot);
    *quot = quotient;
}

return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

```

```

/* Check for correct numbers. */
if (bc_is_zero(mod)) return -1;
if (bc_is_neg(expo)) return -1;

/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);

/* Check the base for scale digits. */
if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
{
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
}

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }

    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

```

```

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn ("non-zero scale in exponent");
    exponent = bc_num2long (num2);
    if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
        bc_rt_error ("exponent too large in raise");

    /* Special case if exponent is a zero. */
    if (exponent == 0)
    {
        bc_free_num (result);
        *result = bc_copy_num (_one_);
        return;
    }

    /* Other initializations. */
    if (exponent < 0)
    {
        neg = TRUE;
        exponent = -exponent;
        rscale = scale;
    }
    else
    {
        neg = FALSE;
        rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
    }

    /* Set initial value of temp. */
    power = bc_copy_num (num1);
    pwrscale = num1->n_scale;
    while ((exponent & 1) == 0)

```



```

    {
        pwrscale = 2*pwrscale;
        bc_multiply (power, power, &power, pwrscale);
        exponent = exponent >> 1;
    }
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
    {
        pwrscale = 2*pwrscale;
        bc_multiply (power, power, &power, pwrscale);
        if ((exponent & 1) == 1) {
            calcscale = pwrscale + calcscale;
            bc_multiply (temp, power, &temp, calcscale);
        }
        exponent = exponent >> 1;
    }

/* Assign the value. */
if (neg)
    {
        bc_divide (_one_, temp, result, rscale);
        bc_free_num (&temp);
    }
else
    {
        bc_free_num (result);
        *result = temp;
        if ((*result)->n_scale > rscale)
            (*result)->n_scale = rscale;
    }
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

```

```

/* Initial checks. */
cmp_res = bc_compare (*num, _zero_);
if (cmp_res < 0)
    return 0; /* error */
else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
    }
cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_one_);
        return 1;
    }

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
    {
        /* The number is between 0 and 1. Guess should start at 1. */
        guess = bc_copy_num (_one_);
        cscale = (*num)->n_scale;
    }
else
    {
        /* The number is greater than 1. Guess should start at 10^(exp/2). */
        bc_int2num (&guess,10);

        bc_int2num (&guess1,(*num)->n_len);
        bc_multiply (guess1, point5, &guess1, 0);
        guess1->n_scale = 0;
        bc_raise (guess, guess1, &guess, 0);
        bc_free_num (&guess1);
    }

```

```

    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, num, rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is

```

non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

```
void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */
```

```
void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
```

```

if (num->n_sign == MINUS) (*out_char) ('-');

/* Output the number. */
if (bc_is_zero (num))
    (*out_char) ('0');
else
    if (o_base == 10)
        {
/* The number is in base 10, do it the fast way. */
nptr = num->n_value;
if (num->n_len > 1 || *nptr != 0)
    for (index=num->n_len; index>0; index--)
        (*out_char) (BCD_CHAR(*nptr++));
else
    nptr++;

if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
    {
        (*out_char) ('. ');
        for (index=0; index<num->n_scale; index++)
            (*out_char) (BCD_CHAR(*nptr++));
    }
    }
else
    {
/* special case ... */
if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);

```

```

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('. ');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }
}

```

```

    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;

```

```

{
char buffer[30];
char *bptr, *vptr;
int ix = 1;
char neg = 0;

/* Sign. */
if (val < 0)
{
    neg = 1;
    val = -val;
}

/* Get things going. */
bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;

/* Extract remaining digits. */
while (val != 0)
{
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only.*/

char
*num2str (num)
    bc_num num;
{
char *str, *sptr;
char *nptr;
int index, signch;

/* Allocate the string memory. */

```



```

signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '\0';
return (str);
}
/* Convert strings to bc numbers. Base 10 only.*/

```

```

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;

```

```

if ((*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)

```

```

*nptr++ = CH_VAL(*ptr++);
}
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
    printf ("\n");
}

```

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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.

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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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.

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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.

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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.

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:

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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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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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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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.)

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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

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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.

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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.

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.

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1.388 zlib 1.2.3

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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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1.389 jettison 1.1

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1.390 cglib-nodep 2.2

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1.392 libart 2.3.17

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1.393 zlib 1.1.3

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- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPEXception.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPOutputStream.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZInputStream.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflater.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfBlocks.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/DeflaterOutputStream.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflater.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/JZlib.java

* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPInputStream.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/CRC32.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPHeader.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InflaterInputStream.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Checksum.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZOutputStream.java

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* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflate.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStream.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflate.java

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- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Tree.java
- * /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java

1.394 httpcomponents-core 4.3.1

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Found in path(s):

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ANSIBuffer.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/Completor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReader.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/MultiCompletor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/SimpleCompletor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/Terminal.java

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jar/jline/CandidateCycleCompletionHandler.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ArgumentCompletor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ClassNameCompletor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CursorBuffer.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/WindowsTerminal.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/UnsupportedTerminal.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-

jar/jline/CandidateListCompletionHandler.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/History.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/UnixTerminal.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReaderInputStream.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CompletionHandler.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleRunner.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/NullCompletor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/FileNameCompletor.java

* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleOperations.java

1.397 bcel 2.7.0

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1.398 struts 2.5.22

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```

*
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*****/
package org.eclipse.text.edits;

import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A CopyingRangeMarker can be used to track positions when executing
 * text edits. Additionally a copying range marker stores a local copy of the
 * text it captures when it gets executed.
 *
 * @since 3.0
 */
public final class CopyingRangeMarker extends TextEdit {

    private String fText;

    /**
     * Creates a new CopyRangeMarker for the given
     * offset and length.
     *
     * @param offset the marker's offset
     * @param length the marker's length
     */
    public CopyingRangeMarker(int offset, int length) {
        super(offset, length);
    }

    /**
     * Copy constructor
     */
    private CopyingRangeMarker(CopyingRangeMarker other) {
        super(other);
        fText= other.fText;
    }

    /** non Java-doc
     * @see TextEdit#doCopy
     */
    protected TextEdit doCopy() {
        return new CopyingRangeMarker(this);
    }

    /**
     * @see TextEdit#accept0

```

```

*/
protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* non Java-doc
 * @see TextEdit#performDocumentUpdating
 */
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}

/* non Java-doc
 * @see TextEdit#deleteChildren
 */
/* package */ boolean deleteChildren() {
    return false;
}
}

```

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```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!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=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
    size: 8.5in 11.0in;
    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
}
p {
    margin-left: auto;
    margin-top: 0.5em;
    margin-bottom: 0.5em;
}
p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
    margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
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```

```
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</body>

</html>

1.401 descriptor 4.0.FR

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- javaee_web_services_client_1_2.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd

- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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1.402 regexp 2.7.1

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1.403 dhcp 4.1.1-53.P1.el6_9.4

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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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```
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:for-each>
    </xsl:with-param>
  </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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```

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1.404 xml-apis 2.0.2

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```
// NO WARRANTY! This class is in the Public Domain.
/**
 * Base class for deriving an XML filter.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class is designed to sit between an { @link org.xml.sax.XMLReader
 * XMLReader} and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
```

```
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.XMLReader
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java
```

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```
/**
* Basic interface for SAX error handlers.
*
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*
* <p>If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* { @link org.xml.sax.XMLReader#setErrorHandler setErrorHandler }
* method. The parser will then report all errors and warnings
* through this interface.</p>
*
* <p><strong>WARNING:</strong> If an application does <em>not</em>
* register an ErrorHandler, XML parsing errors will go unreported
* and bizarre behaviour may result.</p>
*
* <p>For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* { @link #fatalError fatalError } (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java
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```

```
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```

```
/**
```

```
* Interface for a list of XML attributes.
```

```
*
```

```
* <blockquote>
```

```
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```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>This interface allows access to a list of attributes in
```

```
* three different ways:</p>
```

```
*
```

```
* <ol>
```

```
* <li>by attribute index;</li>
```

```
* <li>by Namespace-qualified name; or</li>
```

```
* <li>by qualified (prefixed) name.</li>
```

```
* </ol>
```

```
*
```

```
* <p>The list will not contain attributes that were declared
```

```
* #IMPLIED but not specified in the start tag. It will also not
```

```
* contain attributes used as Namespace declarations (xmlns*) unless
```

```
* the <code>http://xml.org/sax/features/namespace-prefixes</code>
```

```
* feature is set to <var>>true</var> (it is <var>>false</var> by
```

```
* default).</p>
```

```
*
```

```
* <p>If the namespace-prefixes feature (see above) is <var>>false</var>,</p>
```

```
* access by qualified name may not be available; if the
```

```
* <code>http://xml.org/sax/features/namespaces</code>
```

```
* feature is <var>>false</var>, access by Namespace-qualified names
```

```
* may not be available.</p>
```

```
*
```

```
* <p>This interface replaces the now-deprecated SAX1 { @link
```

```
* org.xml.sax.AttributeList AttributeList} interface, which does not
```

```
* contain Namespace support. In addition to Namespace support, it
```

```
* adds the <var>getIndex</var> methods (below).</p>
```

```
*
```

```
* <p>The order of attributes in the list is unspecified, and will
```

```
* vary from implementation to implementation.</p>
```

```
*
```

* @since SAX 2.0
* @author David Megginson,
* sax@megginson.com
* @version 2.0
* @see org.xml.sax.helpers.AttributeListImpl
*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Attributes.java

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/**

* Default implementation for AttributeList.

*

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*

* <p>AttributeList implements the deprecated SAX1 { @link

* org.xml.sax.AttributeList AttributeList } interface, and has been

* replaced by the new SAX2 { @link org.xml.sax.helpers.AttributesImpl

* AttributesImpl } interface.</p>

*

* <p>This class provides a convenience implementation of the SAX

* { @link org.xml.sax.AttributeList AttributeList } interface. This

* implementation is useful both for SAX parser writers, who can use

* it to provide attributes to the application, and for SAX application

* writers, who can use it to create a persistent copy of an element's

* attribute specifications:</p>

*

* <pre>

* private AttributeList myatts;

*

* public void startElement (String name, AttributeList atts)

* {

* // create a persistent copy of the attribute list

* // for use outside this method

* myatts = new AttributeListImpl(atts);

* [...]

* }

* </pre>

*

* <p>Please note that SAX parsers are not required to use this

* class to provide an implementation of AttributeList; it is

* supplied only as an optional convenience. In particular,

* parser writers are encouraged to invent more efficient

* implementations.</p>

```

*
* @deprecated This class implements a deprecated interface,
*     { @link org.xml.sax.AttributeList AttributeList};
*     that interface has been replaced by
*     { @link org.xml.sax.Attributes Attributes},
*     which is implemented in the
*     { @link org.xml.sax.helpers.AttributesImpl
*     AttributesImpl} helper class.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java

```

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```

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```

```

/**

```

```

* Interface for an XML filter.

```

```

*

```

```

* <blockquote>

```

```

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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>An XML filter is like an XML reader, except that it obtains its
* events from another XML reader rather than a primary source like
* an XML document or database. Filters can modify a stream of
* events as they pass on to the final application.</p>

```

```

*

```

```

* <p>The XMLFilterImpl helper class provides a convenient base
* for creating SAX2 filters, by passing on all { @link org.xml.sax.EntityResolver
* EntityResolver}, { @link org.xml.sax.DTDHandler DTDHandler},
* { @link org.xml.sax.ContentHandler ContentHandler} and { @link org.xml.sax.ErrorHandler
* ErrorHandler} events automatically.</p>

```

```

*

```

```

* @since SAX 2.0

```

```

* @author David Megginson,

```

```

*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>

```

```

* @version 2.0

```

```

* @see org.xml.sax.helpers.XMLFilterImpl

```

```

*/

```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java

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

/**

* Interface for associating a SAX event with a document location.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>If a SAX parser provides location information to the SAX

* application, it does so by implementing this interface and then

* passing an instance to the application using the content

* handler's { @link org.xml.sax.ContentHandler#setDocumentLocator

* setDocumentLocator } method. The application can use the

* object to obtain the location of any other content handler event

* in the XML source document.</p>

*

* <p>Note that the results returned by the object will be valid only

* during the scope of each content handler method: the application

* will receive unpredictable results if it attempts to use the

* locator at any other time.</p>

*

* <p>SAX parsers are not required to supply a locator, but they are

* very strongly encouraged to do so. If the parser supplies a

* locator, it must do so before reporting any other document events.

* If no locator has been set by the time the application receives

* the { @link org.xml.sax.ContentHandler#startDocument startDocument }

* event, the application should assume that a locator is not

* available.</p>

*

* @since SAX 1.0

* @author David Megginson,

* sax@megginson.com

* @version 2.0

* @see org.xml.sax.ContentHandler#setDocumentLocator

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Locator.java

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/**

* Receive notification of basic DTD-related events.

*

* <blockquote>

* This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.
 * </blockquote>
 *
 * <p>If a SAX application needs information about notations and
 * unparsed entities, then the application implements this
 * interface and registers an instance with the SAX parser using
 * the parser's setDTDHandler method. The parser uses the
 * instance to report notation and unparsed entity declarations to
 * the application.</p>
 *
 * <p>Note that this interface includes only those DTD events that
 * the XML recommendation requires processors to report:
 * notation and unparsed entity declarations.</p>
 *
 * <p>The SAX parser may report these events in any order, regardless
 * of the order in which the notations and unparsed entities were
 * declared; however, all DTD events must be reported after the
 * document handler's startDocument event, and before the first
 * startElement event.</p>
 *
 * <p>It is up to the application to store the information for
 * future use (perhaps in a hash table or object tree).
 * If the application encounters attributes of type "NOTATION",
 * "ENTITY", or "ENTITIES", it can use the information that it
 * obtained through this interface to find the entity and/or
 * notation corresponding with the attribute value.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 * sax@megginson.com
 * @version 2.0
 * @see org.xml.sax.Parser#setDTDHandler
 * @see org.xml.sax.HandlerBase
 */

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java

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*

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 */

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/ConvertToURI.java

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/**

* Default base class for handlers.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This class implements the default behaviour for four SAX1

* interfaces: EntityResolver, DTDHandler, DocumentHandler,

* and ErrorHandler. It is now obsolete, but is included in SAX2 to

* support legacy SAX1 applications. SAX2 applications should use

* the { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }

* class instead.</p>

*

* <p>Application writers can extend this class when they need to

* implement only part of an interface; parser writers can

* instantiate this class to provide default handlers when the

* application has not supplied its own.</p>

*

* <p>Note that the use of this class is optional.</p>

*

* @deprecated This class works with the deprecated

* { @link org.xml.sax.DocumentHandler DocumentHandler }

* interface. It has been replaced by the SAX2

* { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }

* class.

* @since SAX 1.0

* @author David Megginson,

* sax@meggison.com

* @version 2.0

* @see org.xml.sax.EntityResolver

* @see org.xml.sax.DTDHandler

* @see org.xml.sax.DocumentHandler

* @see org.xml.sax.ErrorHandler

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMBuilderFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMInputSource.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DocumentLS.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathNSResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathResult.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathExpression.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathNamespace.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMEntityResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/LSLoadEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/LSProgressEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/ParseErrorEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMWriterFilter.java

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*/

/**

* DOM Level 3 WD Experimental:

* The DOM Level 3 specification is at the stage

* of Working Draft, which represents work in

* progress and thus may be updated, replaced,

* or obsoleted by other documents at any time. <p>

* <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0

* expressions with no specialized extension functions or variables. It is

* expected that the <code>XPathEvaluator</code> interface will be

* implemented on the same object which implements the <code>Document</code>

* interface in an implementation which supports the XPath DOM module.

* <code>XPathEvaluator</code> implementations may be available from other

* sources that may provide support for special extension functions or

* variables which are not defined in this specification. The methods of

* XPathExpression should be named with more-XPath- specific names because

* the interface will often be implemented by the same object which

* implements document.No change.The point of interfaces is to localize the

* implementing namespace. This would make the method names unnecessarily

* long and complex even though there are no conflicts in the interface

* itself. The new core method getInterface is designed for discovering

* interfaces of additional modules that may not be directly implemented on

* the objects to which they are attached. This could be used to implement

* XPath on a separate object. The user only refers to the separate

* interfaces and not the proprietary aggregate implementation.Should entity

* refs be supported so that queries can be made on them?No change.We will

* not do this now. They are not part of the XPath data model. Note that

* they may be present in the hierarchy of returned nodes, but may not

* directly be requested or returned in the node set.What does createResult

* create when one wants to reuse the XPath?It is not useful.Removed method.

* Should ordering be a separate flag, or a type of result that can be

* requested. As a type of result, it can be better optimized in

* implementations.It makes sense as a type of result. Changed.Removed

* method.Implementing XPathEvaluator on Document can be a problem due to

* conflicts in the names of the methods.The working group finds no better

* solution. GetInterface in Level 3 permits the object to be implemented

* separately. We should be committed to this. We will leave this issue open

* to see if we get more feedback on it.How does this interface adapt to

* XPath 2.0 and other query languages.No change.This interface is not

* intended to adapt to XPath 2.0 or other languages. The models of these

* are likely to be incompatible enough to require new APIs.For alternate

* implementations that can use this API, it can be obtained from different

* sources.Support for custom variables and functions would be very useful.

* No change.It is possible for an implementation to supply alternative

* sources of an XPathEvaluator that can be customized with a custom

* variable and function context. We do not specify how this is

* accomplished. It is too complex to address in this version of the XPath

* DOM.
* <p>See also the Document Object Model (DOM) Level 3 XPath Specification.
*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathEvaluator.java

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/**

* Interface for an element's attribute specifications.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This is the original SAX1 interface for reporting an element's

* attributes. Unlike the new { @link org.xml.sax.Attributes Attributes }

* interface, it does not support Namespace-related information.</p>

*

* <p>When an attribute list is supplied as part of a

* { @link org.xml.sax.DocumentHandler#startElement startElement }

* event, the list will return valid results only during the

* scope of the event; once the event handler returns control

* to the parser, the attribute list is invalid. To save a

* persistent copy of the attribute list, use the SAX1

* { @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl }

* helper class.</p>

*

* <p>An attribute list includes only attributes that have been

* specified or defaulted: #IMPLIED attributes will not be included.</p>

*

* <p>There are two ways for the SAX application to obtain information

* from the AttributeList. First, it can iterate through the entire

* list:</p>

*

* <pre>

* public void startElement (String name, AttributeList atts) {

* for (int i = 0; i < atts.getLength(); i++) {

* String name = atts.getName(i);

* String type = atts.getType(i);

* String value = atts.getValue(i);

* [...]

* }

*

* }

* </pre>

```

*
* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)
*
* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* </pre>
*
* @deprecated This interface has been replaced by the SAX2
*   { @link org.xml.sax.Attributes Attributes }
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java

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/**

* Receive notification of general document events.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This was the main event-handling interface for SAX1; in

* SAX2, it has been replaced by { @link org.xml.sax.ContentHandler

* ContentHandler }, which provides Namespace support and reporting

* of skipped entities. This interface is included in SAX2 only

* to support legacy SAX1 applications.</p>

*

* <p>The order of events in this interface is very important, and

* mirrors the order of information in the document itself. For

* example, all of an element's content (character data, processing

* instructions, and/or subelements) will appear, in order, between

* the startElement event and the corresponding endElement event.</p>
 *
 * <p>Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler. The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.</p>
 *
 * @deprecated This interface has been replaced by the SAX2
 * { @link org.xml.sax.ContentHandler ContentHandler}
 * interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson,
 * sax@megginson.com
 * @version 2.0
 * @see org.xml.sax.Parser#setDocumentHandler
 * @see org.xml.sax.Locator
 * @see org.xml.sax.HandlerBase
 */

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/org/xml/sax/DocumentHandler.java

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// NO WARRANTY! This class is in the Public Domain.

/**

* Factory for creating an XML reader.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* See http://www.saxproject.org

* for further information.

* </blockquote>

*

* <p>This class contains static methods for creating an XML reader

* from an explicit class name, or based on runtime defaults:</p>

*

* <pre>

* try {

* XMLReader myReader = XMLReaderFactory.createXMLReader();

* } catch (SAXException e) {

* System.err.println(e.getMessage());

* }

* </pre>

*


```

* <p><strong>Note to Distributions bundled with parsers:</strong>
* You should modify the implementation of the no-arguments
* <em>createXMLReader</em> to handle cases where the external
* configuration mechanisms aren't set up. That method should do its
* best to return a parser when one is in the class path, even when
* nothing bound its class name to <code>org.xml.sax.driver</code> so
* those configuration mechanisms would see it.</p>
*
* @since SAX 2.0
* @author David Megginson, David Brownell
* @version 2.0r2pre3
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderFactory.java

```

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```

// This class is in the Public Domain. NO WARRANTY!
/**
* Encapsulate Namespace logic for use by SAX drivers.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class encapsulates the logic of Namespace processing:
* it tracks the declarations currently in force for each context
* and automatically processes qualified XML 1.0 names into their
* Namespace parts; it can also be used in reverse for generating
* XML 1.0 from Namespaces.</p>
*
* <p>Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
*
* <p>Here is a simple session:</p>
*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
*
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
*
* String parts[] = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);

```

```

* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NamespaceSupport.java

```

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```

// NO WARRANTY! This class is in the public domain.

```

```

/**

```

```

* Default base class for SAX2 event handlers.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This class is available as a convenience base class for SAX2

```

```

* applications: it provides default implementations for all of the

```

```

* callbacks in the four core SAX2 handler classes:</p>

```

```

*

```

```

* <ul>

```

```

* <li>{ @link org.xml.sax.EntityResolver EntityResolver}</li>

```

```

* <li>{ @link org.xml.sax.DTDHandler DTDHandler}</li>

```

```

* <li>{ @link org.xml.sax.ContentHandler ContentHandler}</li>

```

```

* <li>{ @link org.xml.sax.ErrorHandler ErrorHandler}</li>

```

```

* </ul>

```

```

*

```

```

* <p>Application writers can extend this class when they need to

```

```

* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>
*
* <p>This class replaces the deprecated SAX1
* { @link org.xml.sax.HandlerBase HandlerBase } class.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/DefaultHandler.java

```

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```

/**
* Encapsulate an XML parse error or warning.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This exception will include information for locating the error
* in the original XML document. Note that although the application
* will receive a SAXParseException as the argument to the handlers
* in the { @link org.xml.sax.ErrorHandler ErrorHandler } interface,
* the application is not actually required to throw the exception;
* instead, it can simply read the information in it and take a
* different action.</p>
*
* <p>Since this exception is a subclass of { @link org.xml.sax.SAXException
* SAXException }, it inherits the ability to wrap another exception.</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXException
* @see org.xml.sax Locator
* @see org.xml.sax.ErrorHandler

```

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXParseException.java

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*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/RangeException.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/DocumentTraversal.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Attr.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ProcessingInstruction.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/MutationEvent.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Comment.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/EntityReference.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentFragment.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASection.java

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Node.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentType.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/DOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/EventListener.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/NodeIterator.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Entity.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ranges/DocumentRange.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Element.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/Range.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/NodeFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Document.java
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```

```

/**
 * Basic interface for resolving entities.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>If a SAX application needs to implement customized handling
 * for external entities, it must implement this interface and
 * register an instance with the SAX driver using the
 * { @link org.xml.sax.XMLReader#setEntityResolver setEntityResolver }
 * method.</p>
 *
 * <p>The XML reader will then allow the application to intercept any
 * external entities (including the external DTD subset and external
 * parameter entities, if any) before including them.</p>
 *
 * <p>Many SAX applications will not need to implement this interface,
 * but it will be especially useful for applications that build
 * XML documents from databases or other specialised input sources,
 * or for applications that use URI types other than URLs.</p>
 *
 * <p>The following resolver would provide the application
 * with a special character stream for the entity with the system
 * identifier "http://www.myhost.com/today":</p>
 *
 * <pre>

```

```

* import org.xml.sax.EntityResolver;
* import org.xml.sax.InputSource;
*
* public class MyResolver implements EntityResolver {
*     public InputSource resolveEntity (String publicId, String systemId)
*     {
*         if (systemId.equals("http://www.myhost.com/today")) {
*             // return a special input source
*             MyReader reader = new MyReader();
*             return new InputSource(reader);
*         } else {
*             // use the default behaviour
*             return null;
*         }
*     }
* }
* }
* }
* </pre>

```

* <p>The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).</p>

```

* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java
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```

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Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/package.html
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```

/*

```

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Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLInputElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHtmlElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLabelElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDocument.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLInputElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDirectoryElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableCellElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHeadElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLULListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHRElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFieldSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTextAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLIElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLinkElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParamElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableColElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTitleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLButtonElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLIFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLImageElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLScriptElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLModElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOptGroupElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBaseElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLQuoteElement.java


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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLPreElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMetaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAnchorElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableSectionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLObjectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableCaptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMapElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAppletElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIsIndexElement.java

```

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```
/**
```

```

* Provide an optional convenience implementation of Locator.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class is available mainly for application writers, who
* can use it to make a persistent snapshot of a locator at any
* point during a document parse:</p>
*
* <pre>
* Locator locator;
* Locator startloc;
*
* public void setLocator (Locator locator)
* {
*     // note the locator
*     this.locator = locator;
* }
*
* public void startDocument ()
* {

```

```

* // save the location of the start of the document
* // for future use.
* Locator startloc = new LocatorImpl(locator);
* }
* </pre>
*
* <p>Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>
*
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java

```

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*
*/

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 */

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/ParserConfigurationException.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/FactoryFinder.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/FactoryConfigurationError.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/SAXParserFactory.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/DocumentBuilderFactory.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/DocumentBuilder.java

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/**

* Interface for reading an XML document using callbacks.

```

*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p><strong>Note:</strong> despite its name, this interface does
* <em>not</em> extend the standard Java { @link java.io.Reader Reader }
* interface, because reading XML is a fundamentally different activity
* than reading character data.</p>
*
* <p>XMLReader is the interface that an XML parser's SAX2 driver must
* implement. This interface allows an application to set and
* query features and properties in the parser, to register
* event handlers for document processing, and to initiate
* a document parse.</p>
*
* <p>All SAX interfaces are assumed to be synchronous: the
* { @link #parse parse } methods must not return until parsing
* is complete, and readers must wait for an event-handler callback
* to return before reporting the next event.</p>
*
* <p>This interface replaces the (now deprecated) SAX 1.0 { @link
* org.xml.sax.Parser Parser } interface. The XMLReader interface
* contains two important enhancements over the old Parser
* interface:</p>
*
* <ol>
* <li>it adds a standard way to query and set features and
* properties; and</li>
* <li>it adds Namespace support, which is required for many
* higher-level XML standards.</li>
* </ol>
*
* <p>There are adapters available to convert a SAX1 Parser to
* a SAX2 XMLReader and vice-versa.</p>
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
```

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

```
/**
 * A single input source for an XML entity.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class allows a SAX application to encapsulate information
 * about an input source in a single object, which may include
 * a public identifier, a system identifier, a byte stream (possibly
 * with a specified encoding), and/or a character stream.</p>
 *
 * <p>There are two places that the application will deliver this
 * input source to the parser: as the argument to the Parser.parse
 * method, or as the return value of the EntityResolver.resolveEntity
 * method.</p>
 *
 * <p>The SAX parser will use the InputSource object to determine how
 * to read XML input. If there is a character stream available, the
 * parser will read that stream directly; if not, the parser will use
 * a byte stream, if available; if neither a character stream nor a
 * byte stream is available, the parser will attempt to open a URI
 * connection to the resource identified by the system
 * identifier.</p>
 *
 * <p>An InputSource object belongs to the application: the SAX parser
 * shall never modify it in any way (it may modify a copy if
 * necessary).</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#parse
 * @see org.xml.sax.EntityResolver#resolveEntity
 * @see java.io.InputStream
 * @see java.io.Reader
 */
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/InputSource.java
```

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

```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Exception class for an unsupported operation.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>An XMLReader will throw this exception when it recognizes a
* feature or property identifier, but cannot perform the requested
* operation (setting a state or value). Other SAX2 applications and
* extensions may use this class for similar purposes.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/SAXNotSupportedException.java
```

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

```
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*
*
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*
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```

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 */

Found in path(s):

- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SecuritySupport.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SecuritySupport12.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/SecuritySupport12.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/SecuritySupport.java

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Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html
No license file was found, but licenses were detected in source scan.

// NO WARRANTY! This class is in the public domain.

/**

* Adapt a SAX1 Parser as a SAX2 XMLReader.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This class wraps a SAX1 { @link org.xml.sax.Parser Parser}

* and makes it act as a SAX2 { @link org.xml.sax.XMLReader XMLReader},

* with feature, property, and Namespace support. Note

* that it is not possible to report { @link org.xml.sax.ContentHandler#skippedEntity

* skippedEntity} events, since SAX1 does not make that information available.</p>

*

* <p>This adapter does not test for duplicate Namespace-qualified

* attribute names.</p>

*

* @since SAX 2.0

* @author David Megginson,

* sax@megginson.com

* @version 2.0

* @see org.xml.sax.helpers.XMLReaderAdapter

* @see org.xml.sax.XMLReader

* @see org.xml.sax.Parser

*/

/**

* Adapt a SAX1 AttributeList as a SAX2 Attributes object.

*

* <p>This class is in the Public Domain, and comes with NO

* WARRANTY of any kind.</p>

*

* <p>This wrapper class is used only when Namespace support

* is disabled -- it provides pretty much a direct mapping

* from SAX1 to SAX2, except that names and types are

* interned whenever requested.</p>

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/xml/sax/helpers/ParserAdapter.java

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```
// NO WARRANTY! This class is in the public domain.
```

```
/**
```

```
* Default implementation of the Attributes interface.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

```
*
```

```
* <p>This class provides a default implementation of the SAX2
```

```
* { @link org.xml.sax.Attributes Attributes } interface, with the
```

```
* addition of manipulators so that the list can be modified or
```

```
* reused.</p>
```

```
*
```

```
* <p>There are two typical uses of this class:</p>
```

```
*
```

```
* <ol>
```

```
* <li>to take a persistent snapshot of an Attributes object
```

```
* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
```

```
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
```

```
* </ol>
```

```
*
```

```
* <p>This class replaces the now-deprecated SAX1 { @link
```

```
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
```

```
* class; in addition to supporting the updated Attributes
```

```
* interface rather than the deprecated { @link org.xml.sax.AttributeList
```

```
* AttributeList } interface, it also includes a much more efficient
```

```
* implementation using a single array rather than a set of Vectors.</p>
```

```
*
```

```
* @since SAX 2.0
```

```
* @author David Megginson
```

```
* @version 2.0.1 (sax2r2)
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
```

```
jar/org/xml/sax/helpers/AttributesImpl.java
```

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```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Create a new instance of a class by name.
```

```
*
```

```

* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class contains a static method for creating an instance of a
* class from an explicit class name. It tries to use the thread's context
* ClassLoader if possible and falls back to using
* Class.forName(String). It also takes into account JDK 1.2+'s
* AccessController mechanism for performing its actions. </p>
*
* <p>This code is designed to run on JDK version 1.1 and later and compile
* on versions of Java 2 and later.</p>
*
* @author Edwin Goei, David Brownell, Neil Graham
* @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NewInstance.java

```

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```

/**

```

```

* Encapsulate a general SAX error or warning.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This class can contain basic error or warning information from
* either the XML parser or the application: a parser writer or
* application writer can subclass it to provide additional
* functionality. SAX handlers may throw this exception or
* any exception subclassed from it.</p>

```

```

*

```

```

* <p>If the application needs to pass through other types of
* exceptions, it must wrap those exceptions in a SAXException
* or an exception derived from a SAXException.</p>

```

```

*

```

```

* <p>If the parser or application needs to include information about a
* specific location in an XML document, it should use the
* {@link org.xml.sax.SAXParseException SAXParseException} subclass.</p>

```

```

*

```

```

* @since SAX 1.0

```

```
* @author David Megginson,  
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
* @version 2.0  
* @see org.xml.sax.SAXParseException  
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXException.java  
No license file was found, but licenses were detected in source scan.
```

```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Exception class for an unrecognized identifier.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>An XMLReader will throw this exception when it finds an
```

```
* unrecognized feature or property identifier; SAX applications and
```

```
* extensions may use this class for other, similar purposes.</p>
```

```
*
```

```
* @since SAX 2.0
```

```
* @author David Megginson,
```

```
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
```

```
* @see org.xml.sax.SAXNotSupportedException
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java
```

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Because SAX is released to the public domain, there is no warranty

merchantability and fitness for a particular purpose. The entire

into the public domain.

Public Domain. SAX comes with NO WARRANTY or guarantee of fitness

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/package.html
```

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```
/*
```

```
* Copyright (c) 2002 World Wide Web Consortium,
```

```
* (Massachusetts Institute of Technology, Institut National de
```

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* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE.
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*/

/**

* Create a new `DOMBuilder`. The newly constructed parser may
* then be configured by means of its `setFeature` method,
* and used to parse documents by means of its `parse`
* method.
* @param mode The `mode` argument is either
* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
* `mode` is `MODE_SYNCHRONOUS` then the
* `DOMBuilder` that is created will operate in synchronous
* mode, if it's `MODE_ASYNCHRONOUS` then the
* `DOMBuilder` that is created will operate in
* asynchronous mode.
* @param schemaType An absolute URI representing the type of the schema
* language used during the load of a `Document` using the
* newly created `DOMBuilder`. Note that no lexical
* checking is done on the absolute URI. In order to create a
* `DOMBuilder` for any kind of schema types (i.e. the
* `DOMBuilder` will be free to use any schema found), use the value
* `null`. For W3C XML Schema , applications must use the
* value `"http://www.w3.org/2001/XMLSchema"`. For XML DTD
* , applications must use the value
* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created `DOMBuilder` object. This
* `DOMBuilder` is either synchronous or asynchronous
* depending on the value of the `mode` argument. By
* default, the newly created `DOMBuilder` does not contain
* a `DOMErrorHandler`, i.e. the value of the
* `errorHandler` is `null`. However,
* implementations may provide a default error handler at creation
* time. In that case, the initial value of the
* `errorHandler` attribute on the new created
* `DOMBuilder` contains a reference to the default error
* handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMImplementationLS.java

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/**

* Basic interface for SAX (Simple API for XML) parsers.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This was the main event supplier interface for SAX1; it has

* been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader},

* which includes Namespace support and sophisticated configurability

* and extensibility.</p>

*

* <p>All SAX1 parsers must implement this basic interface: it allows

* applications to register handlers for different types of events

* and to initiate a parse from a URI, or a character stream.</p>

*

* <p>All SAX1 parsers must also implement a zero-argument constructor

* (though other constructors are also allowed).</p>

*

* <p>SAX1 parsers are reusable but not re-entrant: the application

* may reuse a parser object (possibly with a different input source)

* once the first parse has completed successfully, but it may not

* invoke the parse() methods recursively within a parse.</p>

*

* @deprecated This interface has been replaced by the SAX2

* { @link org.xml.sax.XMLReader XMLReader }

* interface, which includes Namespace support.

* @since SAX 1.0

* @author David Megginson,

* sax@megginson.com

* @version 2.0

* @see org.xml.sax.EntityResolver

* @see org.xml.sax.DTDHandler

* @see org.xml.sax.DocumentHandler

* @see org.xml.sax.ErrorHandler

* @see org.xml.sax.HandlerBase

* @see org.xml.sax.InputSource

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java

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```
// Public Domain: no warranty.
/**
 * SAX2 extension handler for DTD declaration events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * <p>Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the { @link
 * org.xml.sax.DTDHandler DTDHandler } interface.</p>
 *
 * <p>If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD } and the
 * { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD } events.</p>
 *
 * <p>To set the DeclHandler for an XML reader, use the
 * { @link org.xml.sax.XMLReader#setProperty setProperty } method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
 * If the reader does not support declaration events, it will throw a
 * { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }
 * or a
 * { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }
 * when you attempt to register the handler.</p>
 *
 * @since 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 1.0
 * @see org.xml.sax.XMLReader
 */
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java
```

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

```
/**
 * Java-specific class for dynamically loading SAX parsers.
 *
```

```

* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p><strong>Note:</strong> This class is designed to work with the now-deprecated
* SAX1 { @link org.xml.sax.Parser Parser} class. SAX2 applications should use
* { @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory} instead.</p>
*
* <p>ParserFactory is not part of the platform-independent definition
* of SAX; it is an additional convenience class designed
* specifically for Java XML application writers. SAX applications
* can use the static methods in this class to allocate a SAX parser
* dynamically at run-time based either on the value of the
* `org.xml.sax.parser' system property or on a string containing the class
* name.</p>
*
* <p>Note that the application still requires an XML parser that
* implements SAX1.</p>
*
* @deprecated This class works with the deprecated
*     { @link org.xml.sax.Parser Parser}
*     interface.
* @since SAX 1.0
* @author David Megginson
* @version 2.0r2pre3
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserFactory.java

```

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```

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```

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 */

Found in path(s):
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/javax/xml/parsers/FilePathToURI.java

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```
// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader }
 * and makes it act as a SAX1 { @link org.xml.sax.Parser Parser}. The XMLReader
 * must support a true value for the
 * http://xml.org/sax/features/namespace-prefixes property or parsing will fail
 * with a { @link org.xml.sax.SAXException SAXException}; if the XMLReader
 * supports a false value for the http://xml.org/sax/features/namespaces
 * property, that will also be used to improve efficiency.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser
 * @see org.xml.sax.XMLReader
 */
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderAdapter.java
```

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```
// NO WARRANTY! This class is in the public domain.
/**
 * Receive notification of the logical content of a document.
 *
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 * </blockquote>
 *
 * <p>This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the { @link org.xml.sax.XMLReader#setContentHandler
 * setContentHandler} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 */
```

```

*
* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
*
* <p>This interface is similar to the now-deprecated SAX 1.0
* DocumentHandler interface, but it adds support for Namespaces
* and for reporting skipped entities (in non-validating XML
* processors).</p>
*
* <p>Implementors should note that there is also a Java class
* { @link java.net.ContentHandler ContentHandler } in the java.net
* package; that means that it's probably a bad idea to do</p>
*
* <blockquote>
* import java.net.*;
* import org.xml.sax.*;
* </blockquote>
*
* <p>In fact, "import ...*" is usually a sign of sloppy programming
* anyway, so the user should consider this a feature rather than a
* bug.</p>
*
* @since SAX 2.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java
```

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```
// Public Domain: no warranty.
```

```
/**
```

```
* SAX2 extension handler for lexical events.
```

```
*
```

```
* <blockquote>
```

```
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```

```
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```

```
* </blockquote>
```

```
*
```

```
* <p>This is an optional extension handler for SAX2 to provide
```

- * lexical information about an XML document, such as comments
- * and CDATA section boundaries; XML readers are not required to
- * support this handler, and it is not part of the core SAX2
- * distribution.</p>
- *
- * <p>The events in the lexical handler apply to the entire document,
- * not just to the document element, and all lexical handler events
- * must appear between the content handler's startDocument and
- * endDocument events.</p>
- *
- * <p>To set the LexicalHandler for an XML reader, use the
- * { @link org.xml.sax.XMLReader#setProperty setProperty } method
- * with the propertyId "http://xml.org/sax/properties/lexical-handler".
- * If the reader does not support lexical events, it will throw a
- * { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }
- * or a
- * { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }
- * when you attempt to register the handler.</p>
- *
- * @since 1.0
- * @author David Megginson,
- * sax@megginson.com
- * @version 1.0
- * @see org.xml.sax.XMLReader#setProperty
- * @see org.xml.sax.SAXNotRecognizedException
- * @see org.xml.sax.SAXNotSupportedException
- */

Found in path(s):

*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/LexicalHandler.java

1.405 free-type 2.3.11-14.el6_3.1

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1.406 slf4j-log4j 1.6.1

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1.407 tomcat-ssi 9.0.37

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1.409 cxf-bundle 2.7.4

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*/

package org.apache.cxf.rs.security.oauth2.common;

/**

* Base permission description

* @see OAuthAuthorizationData

*/

public class Permission {

private String permission;

private String description;

private boolean isDefault;

public Permission() {

}

public Permission(String permission, String description) {

 this.description = description;

 this.permission = permission;

}

/**

* Gets the permission description

* @return the description

*/

public String getDescription() {

 return description;

}

/**

* Sets the permission description

* @param description

*/

public void setDescription(String description) {

 this.description = description;

}

/**

* Get the permission value such as "read_calendar"

* @return the value

*/

public String getPermission() {

```

    return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}
/**
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 */
package org.apache.cxf.rs.security.oauth.data;

/**

```

```

* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {

    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}

```

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 */
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
```

```
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}
```

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1.410 istack-commons 2.13

1.411 jackson-jaxrs 1.9.2

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1.412 apr-util 1.4.1

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/*

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* -----

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* -----

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```
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```
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1.413 libasyns 0.8-1.1.e16

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1.414 castor-core 1.3.1

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1.415 commons-codec 1.3

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 */
```

Found in path(s):

```
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/StringEncoder.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
```

jar/org/apache/commons/codec/language/SoundexUtils.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/Decoder.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/URLConnection.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/QCodec.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/DoubleMetaphone.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/DecoderException.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/StringDecoder.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/RefinedSoundex.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/QuotedPrintableCodec.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/digest/DigestUtils.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/binary/Hex.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/BinaryDecoder.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/EncoderException.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/StringEncodings.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/Soundex.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/Encoder.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/StringEncoderComparator.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/binary/BinaryCodec.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/RFC1522Codec.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/BCodec.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/BinaryEncoder.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/binary/Base64.java
* /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/Metaphone.java

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- * /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/package.html
- * /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/package.html
- * /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/package.html
- * /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/overview.html
- * /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/binary/package.html
- * /opt/cola/permits/1000764348_1646171564.99/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/digest/package.html

1.416 cxf-xjc-bug671 2.6.1

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For the following XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_6.xsd
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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.

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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```
<one line to give the library's name and a brief idea of what it does.>  
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```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

1.420 diffutils 2.8.1-28.el6

1.420.1 Available under license :

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

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

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1.421 cpio 2.10-12.el6_5

1.421.1 Available under license :

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Version 3, 29 June 2007

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

```
This program is free software: you can redistribute it and/or modify  
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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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```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program 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, your program's commands

might be different; for a GUI interface, you would use an "about box".

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canonicalize-lgpl.m4 serial 5

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dnl gives unlimited permission to copy and/or distribute it,

dnl with or without modifications, as long as this notice is preserved.

AC_DEFUN([gl_CANONICALIZE_LGPL],

[

dnl Do this replacement check manually because the file name is shorter
dnl than the function name.

AC_CHECK_DECLS_ONCE([canonicalize_file_name])

AC_CHECK_FUNCS_ONCE([canonicalize_file_name])

if test \$ac_cv_func_canonicalize_file_name = no; then

AC_LIBOBJ([canonicalize-lgpl])

AC_DEFINE([realpath], [rpl_realpath],

[Define to a replacement function name for realpath().])

gl_PREREQ_CANONICALIZE_LGPL

fi

])

Like gl_CANONICALIZE_LGPL, except prepare for separate compilation

(no AC_LIBOBJ).

AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],

[

AC_CHECK_DECLS_ONCE([canonicalize_file_name])

AC_CHECK_FUNCS_ONCE([canonicalize_file_name])

gl_PREREQ_CANONICALIZE_LGPL

])

Prerequisites of lib/canonicalize-lgpl.c.

AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],

[

AC_CHECK_HEADERS_ONCE([sys/param.hunistd.h])

AC_CHECK_FUNCS_ONCE([getcwdreadlink])

])

1.422 tomcat-el-api 9.0.37

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jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/AttributeAccessorSupport.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/PropertyTypeDescriptor.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/GenericTypeResolver.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/ConversionUtils.java
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jar/org/springframework/core/convert/support/GenericConversionService.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/MapToMapConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/ConfigurableObjectInputStream.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/io/ByteArrayResource.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/StringUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
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jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/TypeDescriptor.java
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jar/org/springframework/core/convert/converter/GenericConverter.java
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jar/org/springframework/core/BridgeMethodResolver.java
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jar/org/springframework/util/LinkedCaseInsensitiveMap.java
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jar/org/springframework/core/ExceptionDepthComparator.java
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jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
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jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/task/TaskTimeoutException.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/PatternMatchUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/style/ValueStyler.java
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jar/org/springframework/core/type/classreading/MetadataReaderFactory.java

* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/StringValueResolver.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/SmartClassLoader.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/support/EncodedResource.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
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jar/org/springframework/util/xml/StaxEventXMLReader.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/TypeUtils.java
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jar/org/springframework/util/xml/StaxUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/ClassUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/convert/support/StringToCollectionConverter.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
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jar/org/springframework/util/PathMatcher.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/io/VfsResource.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/util/xml/AbstractStaxContentHandler.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/Resource.java

* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/xml/SimpleNamespaceContext.java

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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/serializer/DefaultSerializer.java

* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/xml/StaxEventContentHandler.java

* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/CollectionUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/annotation/AnnotationUtils.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/PropertyPlaceholderHelper.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/CollectionFactory.java
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- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/DefaultPropertiesPersister.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/style/DefaultValueStyler.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/InfrastructureProxy.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/style/ToStringStyler.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/ConcurrencyThrottleSupport.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/comparator/BooleanComparator.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/NamedInheritableThreadLocal.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/CommonsLogWriter.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/ControlFlowFactory.java
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- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/xml/TransformerUtils.java
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- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/comparator/ComparableComparator.java
- * /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/task/TaskRejectedException.java
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jar/org/springframework/core/task/TaskExecutor.java

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jar/org/springframework/core/enums/AbstractGenericLabeledEnum.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/task/AsyncTaskExecutor.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-
jar/org/springframework/core/enums/LabeledEnum.java
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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/PropertiesPersister.java

* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/ControlFlow.java

* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/ErrorCoded.java

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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/util/CompositeIterator.java

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* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/io/InputStreamSource.java
* /opt/cola/permits/1111265255_1606892018.44/0/spring-core-3-0-7-release-sources-2-jar/org/springframework/core/type/filter/AssignableTypeFilter.java

1.424 lua 5.1.4

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1.426 xerces-j 2.12.0

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Colin Watson

Dimitar Dobrev

edink

Gilles Espinasse

guenter

Kornel Lesiski

kshepherd

lhecking

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1.433 axiom-dom 1.2.13

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1.434 make 3.81-20.el6

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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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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Appendix: How to Apply These Terms to Your New Programs

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) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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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 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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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

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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.

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 writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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.

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.

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.

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.
- 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.
- d) 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 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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To apply these terms, attach the following notices to the library. 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.

```
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```

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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!

1.435 backport-util-concurrent 3.1

1.435.1 Available under license :

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- 1) JSR166,
- 2) package dl.util.concurrent,
- 3) Doug Lea's "collections" package.

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1.437 opensaml-java 2.5.3

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1.438 junit 3.8.1

1.439 cxf-rt-bindings-object 2.7.4

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1.443 cxf-rt-databinding-aegis 2.7.4

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1.444 commons-logging 1.1

1.445 java-api 2.1

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1.446 jackson-annotations 2.10.1

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1.447 xml-commons-resolver

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1.449 dmraid 1.0.0.rc16-11.el6

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/* setjmp in setjmp.S */

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Message-Id: <200603011923.OAA86112@raptor.research.att.com>

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X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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1.451 jetty-continuation 8.1.7.v20120910

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```

Found in path(s):

```
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/Continuation.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/ContinuationFilter.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/ContinuationSupport.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/ContinuationThrowable.java
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/continuation/Jetty6Continuation.java
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Found in path(s):

```
* /opt/cola/permits/1001958795_1646171657.55/0/jetty-continuation-8-1-7-v20120910-sources-jar/about.html
```

1.452 commons-lang3 2.4

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1.453 libssh2 1.4.2

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1.454 tcl 8.5.7

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1.456 expression 3.0.7.RELEASE

1.456.1 Available under license :

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Found in path(s):

```
* // Chew on the expression text - relying on the rules
* case ""
* case "\"
```

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() [] {}

Found in path(s):

```
* // brackets must be in pairs
```

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" +

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* "" for expression starting at character " + prefixIndex + "
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case '[': case '(':

Found in path(s):

* case '{'
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java

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"foo\${expr0}bar\${expr1}". The static

Found in path(s):

* * number of expressions all contained in "\${...}" markers. For instance

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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/SpelEvaluationException.java

* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/SpelParseException.java

* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/ParserContext.java

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case ']:case ')':

Found in path(s):

* case '}'

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- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/Projection.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/Indexer.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/ConstructorReference.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/InlineList.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/common/TemplateParserContext.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/FormatHelper.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/TypeConverter.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/EvaluationContext.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/BeanReference.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/ConstructorResolver.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/IntLiteral.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/FunctionReference.java
- * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/Selection.java

* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/TypedValue.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/BeanResolver.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/Expression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/MethodResolver.java

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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/InternalParseException.java

* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/PropertyAccessor.java

* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-

jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Operator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/ExpressionException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpMinus.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Assign.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpAnd.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/ParseException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/Token.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/Tokenizer.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-

jar/org/springframework/expression/AccessException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ExpressionState.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/ExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/SpelNode.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Ternary.java
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jar/org/springframework/expression/spel/ast/NullLiteral.java
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/EvaluationException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/SpelMessage.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpPlus.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/OperatorOverloader.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/TypeLocator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-

jar/org/springframework/expression/Operation.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/TypeComparator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/MethodFilter.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
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jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/MethodExecutor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
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jar/org/springframework/expression/spel/ast/OpLE.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/ConstructorExecutor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java

1.457 tomcat-jaspic-api 9.0.37

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Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/ClientAuth.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/AuthConfigFactory.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/ClientAuthConfig.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/AuthException.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/AuthStatus.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/module/ServerAuthModule.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/module/ClientAuthModule.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/AuthConfigProvider.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/AuthConfig.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/MessagePolicy.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/SecretKeyCallback.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/ServerAuthContext.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/ClientAuthContext.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/MessageInfo.java
- * /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/ServerAuth.java

* /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/PrivateKeyCallback.java
* /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/config/RegistrationListener.java
* /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /opt/ws_local/PERMITS_SQL/1076796530_1596661313.72/0/tomcat-jaspic-api-9-0-37-sources-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java

1.458 jackson 2.10.1

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1.459 berkeley-db 4.7.25

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1.460 tomcat-jdbc 9.0.37

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<html>
<body bgcolor="white">
<h1 align="center">
Copyright Release for<br>
Contributions To SQLite
</h1>

```

```

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SQLite is available for free download from http://www.sqlite.org/.
The principal author and maintainer of SQLite has disclaimed all
copyright interest in his contributions to SQLite

```

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</p>

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</p>

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The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives.

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</p>

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</p>

<p>

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<p>

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</p>

<p>

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I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

</p>

<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p> </p>

<p> </p>

<p> </p>

</td><td valign="top" align="left">

Date:

</td></tr>

<td colspan=2>

Name (printed):

</td>

</tr>

</table>

</body>

```

</html>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<title>SQLite Copyright</title>
<style type="text/css">
body {
    margin: auto;
    font-family: Verdana, sans-serif;
    padding: 8px 1%;
}

a { color: #45735f }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
float:right;
text-align:right;
font-style:italic;
width:300px;
margin:12px;
margin-top:58px;
}

.toolbar {
font-variant: small-caps;
text-align: center;
line-height: 1.6em;
margin: 0;
padding: 1px 8px;
}

.toolbar a { color: white; text-decoration: none; padding: 6px 12px; }
.toolbar a:visited { color: white; }
.toolbar a:hover { color: #80a796; background: white; }

.content { margin: 5%; }
.content dt { font-weight:bold; }
.content dd { margin-bottom: 25px; margin-left:20%; }
.content ul { padding:0px; padding-left: 15px; margin:0px; }

/* rounded corners */
.se { background: url(images/se.png) 100% 100% no-repeat #80a796}
.sw { background: url(images/sw.png) 0% 100% no-repeat }
.ne { background: url(images/ne.png) 100% 0% no-repeat }
.nw { background: url(images/nw.png) 0% 0% no-repeat }

</style>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">

```

```

</head>
<body>
<div><!-- container div to satisfy validator -->

<a href="index.html">
</a>
<div><!-- IE hack to prevent disappearing logo--></div>
<div class="tagline">Small. Fast. Reliable.<br>Choose any three.</div>

<table width=100% style="clear:both"><tr><td>
<div class="se"><div class="sw"><div class="ne"><div class="nw">
<div class="toolbar">
  <a href="about.html">About</a>
  <a href="sitemap.html">Sitemap</a>
  <a href="docs.html">Documentation</a>
  <a href="download.html">Download</a>
  <a href="copyright.html">License</a>
  <a href="news.html">News</a>
  <!-- <a href="dev.html">Developers</a> -->
  <a href="support.html">Support</a>
</div></div></div></div></div>
</td></tr></table>

<h2>SQLite Copyright</h2>

<table align="right" vspace="0" hspace="10" border="1" cellpadding="20">
<tr><td align="center">
<br>
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<a href="http://en.wikipedia.org/wiki/Public_Domain">Public Domain</a>
</td></tr>
</table>

<p>
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All code authors, and representatives of the companies they work for,
have signed affidavits dedicating their contributions to
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of <a href="http://www.hwaci.com">Hwaci</a>.
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the original SQLite code, either in source code form or as a compiled binary,

```


for any purpose, commercial or non-commercial, and by any means.

</p>

<p>

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</p>

<p>

All of the deliverable code in SQLite has been written from scratch. No code has been taken from other projects or from the open internet. Every line of code can be traced back to its original author, and all of those authors have public domain dedications on file. So the SQLite code base is clean and is uncontaminated with licensed code from other projects.

</p>

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</p>

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 You want to hold a tangible legal document as evidence that you have the legal right to use and distribute SQLite.

 Your legal department tells you that you have to purchase a license.

<p>

If you feel like you really have to purchase a license for SQLite, Hwaci, the company that employs the architect and principal developers of SQLite, will

[sell you one](http://www.hwaci.com/cgi-bin/license-step1).

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If you want to send a patch or enhancement for possible inclusion in the SQLite source tree, please accompany the patch with the following statement:

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A signed original of the copyright release should be mailed to:

Hwaci

6200 Maple Cove Lane

Charlotte, NC 28269

USA

A template copyright release is available in [PDF](#) or [HTML](#).

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1.464 jersey-json 1.18

1.465 libarchive 2.8.3

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libarchive/archive_read_support_filter_compress.c
libarchive/archive_write_add_filter_compress.c
libarchive/mtree.5

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1.466 geronimo-jaxws 1.1

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1.467 curl 7.19.7-37.el6_5.3

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=====
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I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license

with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgp-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

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1.468 cxf-rt-rs-security-xml 2.7.4

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1.472 cxf-tools-wsdlt-core 2.7.4

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1.475 time 1.7-37.1.e16

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```

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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

Ty Coon, President of Vice

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1.476 aws-java-sdk 1.0.000

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 */
package com.amazonaws.services.s3.model;

/**
 * Represents an access permission, as granted to grantees in an
 * {@link AccessControlList}. Only a limited set of permission are available,
 * and each one is represented as a member of this enum.
 */
public enum Permission {

    /**
     * Provides READ, WRITE, READ_ACP, and WRITE_ACP permissions.
     * <p>
     * It does not convey additional rights and is provided only for
     * convenience.
     */
    FullControl("FULL_CONTROL"),

    /**
     * When applied to a bucket, grants permission to list the bucket.
     * <p>
     * When applied to an object, grants permission to read the object data
     * and/or metadata.
     */
}
```

```

*/
Read("READ"),

/**
 * When applied to a bucket, grants permission to create, overwrite, and
 * delete any object in the bucket.
 * <p>
 * This permission is not supported for objects.
 */
Write("WRITE"),

/**
 * Grants permission to read the ACL for the applicable bucket or object.
 * <p>
 * The owner of a bucket or object always has this permission implicitly.
 */
ReadAcp("READ_ACP"),

/**
 * Gives permission to overwrite the ACP for the applicable bucket or
 * object.
 * <p>
 * The owner of a bucket or object always has this permission implicitly.
 * <p>
 * Granting this permission is equivalent to granting FULL_CONTROL because
 * the grant recipient can make any changes to the ACP.
 */
WriteAcp("WRITE_ACP");

private String permissionString;

private Permission(String permissionString) {
    this.permissionString = permissionString;
}

/**
 * Returns the string representation of this permission object as defined by
 * Amazon S3, eg <tt>FULL_CONTROL</tt>
 *
 * @return the string representation of this permission object as defined by
 *         Amazon S3, eg <tt>FULL_CONTROL</tt>
 */
public String toString() {
    return permissionString;
}

/**
 * @param str

```

```

*      a string representation of an S3 permission, eg
*      <tt>FULL_CONTROL</tt>
*
* @return the Permission object represented by the given permission string,
*         or null if the string isn't a valid representation of an S3
*         permission.
*/
public static Permission parsePermission(String str) {
    for (Permission permission : Permission.values()) {
        if (permission.permissionString.equals(str)) {
            return permission;
        }
    }

    return null;
}
}

```

1.477 jsp 2.2.FR

1.477.1 Available under license :

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.478 free-type 2.3.11-19.el6_10

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#

Don't put empty lines into this file!

#

.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

#

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1.483 commons-lang3 2.6

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1.487 httpcomponents-httpcore 4.1.2

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1.492 axis2-xmlbeans 1.6.2

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1.493 cxf-services-wsn-core 2.7.4

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1.494 spring-expression 3.0.7.RELEASE

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* // brackets must be in pairs

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*/

Found in path(s):

* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/ParserContext.java

* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/SpelParseException.java

* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/SpelEvaluationException.java

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" +

Found in path(s):

* "" for expression starting at character " + prefixIndex + "

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Found in path(s):

* * http

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case '[': case '(':

Found in path(s):

* case '{'

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Found in path(s):

```
* // Chew on the expression text - relying on the rules
* case "\"
* case ""
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/BeanResolver.java
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jar/org/springframework/expression/spel/ast/BeanReference.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/StandardTypeConverter.java
```

* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/Indexer.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/TypeConverter.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/EvaluationContext.java

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"foo\${expr0}bar\${expr1}". The static

Found in path(s):

* * number of expressions all contained in "\${...}" markers. For instance

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- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/AccessException.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/TypeLocator.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/common/CompositeStringExpression.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/TypeComparator.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/OpNE.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/Assign.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/TypeReference.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/MethodExecutor.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/SpelParserConfiguration.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/Literal.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorBetween.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/OpPlus.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/Identifier.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/TypeCode.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/VariableReference.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/OpGT.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-jar/org/springframework/expression/spel/ast/OpDivide.java
- * /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-

jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/InternalParseException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/Operation.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpMinus.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/standard/Token.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/MethodFilter.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/EvaluationException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/common/LiteralExpression.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/PropertyAccessor.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-

jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpAnd.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/standard/Tokenizer.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/OpLE.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/ParseException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ExpressionState.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/ExpressionParser.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/SpelNode.java
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* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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* /opt/cola/permits/1111238431_1606882747.41/0/spring-expression-3-0-7-release-sources-2-
jar/org/springframework/expression/spel/ast/AstUtils.java
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case ']:case '):
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* case '}'
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```
square brackets [] round brackets () and curly brackets {}
```

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1.495 asm 3_3

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1.496 slf4j 1.7.5

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* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/BasicMarker.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/BasicMDCAdapter.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/spi/LocationAwareLogger.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/IMarkerFactory.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/ILoggerFactory.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/impl/StaticMDCBinder.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/spi/MarkerFactoryBinder.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/NamedLoggerBase.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/MarkerFactory.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/NOPLogger.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/spi/LoggerFactoryBinder.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/spi/MDCAdapter.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/LoggerFactory.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/BasicMarkerFactory.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/Logger.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/MessageFormatter.java
 * /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-

jar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/MDC.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/Marker.java
* /opt/cola/permits/1110910367_1606871910.37/0/slf4j-api-1-7-5-sources-2-jar/org/slf4j/helpers/MarkerIgnoringBase.java

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former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

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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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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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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.

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.

^L

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.

^L

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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 facilities. This must be distributed under the terms of the Sections above.

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

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Also add information on how to contact you by electronic and paper

mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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.
=20
=20mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done

much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro

> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable

timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umsr.edu ([131.151.0.192]) by UMR-CMAIL1.umsr.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.umsr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (gmail 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.umsr.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@umsr.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.umsr.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@umsr.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

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20

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> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
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>=20

> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done

> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.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@umn.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.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delp=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@umn.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

1.505 libgssglue 0.1-11.el6

1.505.1 Available under license :

This package was debianized by J. Bruce Fields <bfields@fieldses.org> on Thu, 21 Oct 2004 16:54:53 -0400.

The latest version can always be found at
<http://www.citi.umich.edu/projects/nfsv4/linux/>

Authors: Kevin Coffman, J. Bruce Fields, et. al.

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1.506 file 5.04-30.e16

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1.507 nimbus-jose-jwt 4.23

1.507.1 Available under license :

Nimbus JOSE + JWT

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1.508 commons-el 5.5.23

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_sstream.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/c_locale.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/details/fstream_win32io.cpp
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ostream.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/facets_byname.cpp
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/messages.cpp
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_locale.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_num_put.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_fstream.h

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/*****
test_push_back.h

Interface for the test_push_back class

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_push_back.h

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*

*/

#ifndef _STLP_SLIST

#define _STLP_SLIST

#ifndef _STLP_OUTERMOST_HEADER_ID

define _STLP_OUTERMOST_HEADER_ID 0x58

include <stl/_prolog.h>

#endif

#ifdef _STLP_PRAGMA_ONCE

pragma once

#endif

#if defined (_STLP_NO_EXTENSIONS)

/* Comment following if you want to use the slist constainer even if you ask for

* no extension.

*/

error The slist class is an STLport extension.

#endif

#ifndef _STLP_INTERNAL_SLIST_H

include <stl/_slist.h>

#endif

#if defined (_STLP_IMPORT_VENDOR_STD)

//This is not a Standard header, it might failed for most of

//the compilers so we comment it for the moment. Should be uncommented

//on a compiler basis.

//# include _STLP_NATIVE_HEADER(slist)

#endif


```

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*
*/

#ifndef _STLP_MAP

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x43
# include <stl/_prolog.h>
# define _STLP_MAP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
# ifndef _STLP_INTERNAL_MAP_H
#   include <stl/_map.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x43) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <map>
# else
#   include _STLP_NATIVE_HEADER(map)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_MAP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/map

```

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```
*****  
* README file for STLport 5.0 *  
* *  
*****
```

This directory contains the STLport-5.0 release.

What's inside :

- README - this file
- INSTALL - installation instructions

- bin - installation directory for STLport unit tests;
it may contain more subdirs, if you use
crosscompilation
- build/lib - build directory for STLport library (if you use
STLport iostreams and/or locale only)
- build/test/unit - build directory for regression (unit) tests
- build/test/eh - build directory for exception handling tests
- stlport - main STLport include directory
- src - source for iostreams implementation and other parts
that aren't pure template code
- lib - installation directory for STLport library (if you
use STLport iostreams and/or locale only);
it may contain more subdirs, if you use
crosscompilation
- test/unit - unit (regression) tests
- test/eh - exception handling test using STLport iostreams
- etc - miscellaneous files (ChangeLog, TODO, scripts, etc.)

GETTING STLPORT

To download the latest version of STLport, please be sure to visit
https://sourceforge.net/project/showfiles.php?group_id=146814

LEGALESE

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/*
 test_algo.cpp

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 * /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_algo.cpp
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 version.

Found in path(s):
 * /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/etc/ChangeLog-5.1

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test_push_front.h

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/*****

SortClass.h

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SUMMARY: A class designed to test operations that compares objects. All comparisons on SortClass may fail. Also records its own address for the sake of testing the stability of sorting algorithms.

*****/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/SortClass.h

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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:

```
make -f gcc.mak depend
make -f gcc.mak install
```

GNU Make (SunOS), with SunPro CC:

```
make -f CC.mak depend
make -f CC.mak install
```

Microsoft NMAKE (MS Windows), with VC6:

```
nmake /fmsvc.mak install
```

Make system goals.

- all source files declared in one place (for all platforms and compilers); the same is for base library (application) name and version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-compilation

Make targets.

release-static

build STLport as static library

dbg-static

build STLport as static library (with debug information)

stldbg-static

build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

build STLport as dynamic (shared) library

dbg-shared

STLport as dynamic (shared) library (with debug information)

stldbg-shared

build STLport as dynamic (shared) library (STLP_DEBUG mode, with debug information)

all (default)

cumulative target for release,dbg,stldbg -shared on Unix-like platforms and plus release,dbg,stldbg -static on Windows.

depend

create dependency files (for performance reasons dependency not created during compilation process); this target absent for MS NMAKE (due to pure scripting opportunities)

install-release-shared

install-dbg-shared

install-stldbg-shared

install-release-static

install-dbg-static

install-stldbg-static

build and install appropriate libraries and related files, into 'STLport/lib' and 'STLport/bin' (../lib, relative position of this file)

install

cumulative target for install-*-shared on Unix-like platforms and install-*-static on Windows.

clean

remove all intermediate files

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/lib/README

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*/

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_fwd.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_limits.h
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Main.cpp

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```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/LeakCheck.h  
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```

```
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*  
*/
```

```
#ifndef _STLP_CLIMITS  
# define _STLP_CLIMITS
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x108  
# include <stl/_prolog.h>  
#endif
```

```
#if defined (__SUNPRO_CC) && ((__SUNPRO_CC == 0x500) && (__SUNPRO_CC_COMPAT > 4))  
# include </usr/include/limits.h>  
#elif defined (_STLP_USE_NEW_C_HEADERS)  
# if defined (_STLP_HAS_INCLUDE_NEXT)  
# include_next <climits>  
# else  
# include _STLP_NATIVE_CPP_C_HEADER(climits)  
# endif  
#else  
# if defined (__BORLANDC__)
```

```

# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <limits.h>
# else
#   include _STLP_NATIVE_C_HEADER(limits.h)
# endif
# else
#   include <limits.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x108 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CLIMITS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/climits
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*
*/

#endif _STLP_NUMERIC

```

```

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x49
# include <stl/_prolog.h>
# define _STLP_NUMERIC
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
# ifndef _STLP_INTERNAL_NUMERIC_H
# include <stl/_numeric.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x49) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <numeric>
# else
# include _STLP_NATIVE_HEADER(numeric)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_NUMERIC */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/numeric
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```

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_list.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hash_set.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_construct.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bvector.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_deque.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algo.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stack.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_uninitialized.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algbase.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_vector.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algo.c

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_vector.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_deque.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_map.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_pthread_alloc.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hashtable.h

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_tree.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algbase.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/dll_main.cpp
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_queue.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_pair.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_list.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hash_map.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_raw_storage_iter.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_set.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tree.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tempbuf.h
```

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```
/*
```

```
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```
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```

```
*/
```

```
#ifndef _STLP_CWCTYPE
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x121
```

```
# define _STLP_CWCTYPE
```

```
# include <stl/_prolog.h>
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
```

```
# ifndef _STLP_INTERNAL_CWCTYPE
```

```
# include <stl/_cwctype.h>
```

```
# endif
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x121) || defined (_STLP_IMPORT_VENDOR_STD)
```

```
# if defined (_STLP_HAS_INCLUDE_NEXT)
```

```
# include_next <cwctype>
```

```
# else
```

```
# include _STLP_NATIVE_CPP_C_HEADER(cwctype)
```

```
# endif
```



```

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CWCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwctype
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*/

// This header exists solely for portability. Normally it just includes
// the native header <exception>.

#ifndef _STLP_EXCEPTION

#if !defined (_STLP_OUTERMOST_HEADER_ID)
# define _STLP_OUTERMOST_HEADER_ID 0x423
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x423)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_EXCEPTION
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x423) && !defined (_STLP_DONT_POP_HEADER_ID)

```

```

# ifndef _STLP_INTERNAL_EXCEPTION
# include <stl/_exception.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x423) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
/* If we are here it means that we are in an include called
* from the native lib which means that we can simply forward this
* call to the native exception header:
*/
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <exception>
# else
# if defined (__DMC__) && (_STLP_OUTERMOST_HEADER_ID == 0x874)
// Workaround to DMC hardcoded typeinfo.h inclusion.
# include <../include/exception>
# else
# include _STLP_NATIVE_CPP_RUNTIME_HEADER(exception)
# endif
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x423)
# if !defined(_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#endif /* _STLP_EXCEPTION */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_range_errors.h
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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/allocators.cpp
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_slist.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_rope.h
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```
#ifndef _STLP_CSETJMP
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x111  
# define _STLP_CSETJMP  
# include <stl/_prolog.h>  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x111)  
# ifndef _STLP_INTERNAL_CSETJMP  
# include <stl/_csetjmp.h>  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x111) || defined (_STLP_IMPORT_VENDOR_STD)  
# if defined (_STLP_HAS_INCLUDE_NEXT)  
# include_next <csetjmp>  
# else  
# include _STLP_NATIVE_CPP_C_HEADER(csetjmp)  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x111 )  
# include <stl/_epilog.h>  
# undef _STLP_OUTERMOST_HEADER_ID  
#endif
```

```
#endif /* _STLP_CSETJMP */
```

```
// Local Variables:  
// mode:C++  
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp

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```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_string.h
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 *
 */
```

```
#ifndef _STLP_CTIME
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x118
```

```
# include <stl/_prolog.h>
```

```
#elif (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT_POP_HEADER_ID)
```

```
# define _STLP_DONT_POP_HEADER_ID
```

```
# define _STLP_CTIME
```

```
#endif
```

```

#if (_STLP_OUTERMOST_HEADER_ID == 0x118) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CTIME
#  include <stl/_ctime.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x118) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <ctime>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(ctime)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x118)
# if !defined (_STLP_DONT_POP_HEADER_ID)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
# else
#  undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

```

```
#endif /* _STLP_CTIME */
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

```
Found in path(s):
```

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime
```

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#ifndef _STLP_VALARRAY

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x76
# include <stl/_prolog.h>
# define _STLP_VALARRAY
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
# ifndef _STLP_VALARRAY_H
#   include <stl/_valarray.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x76) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <valarray>
# else
#   include _STLP_NATIVE_HEADER(valarray)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_VALARRAY */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/valarray
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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_proxy.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/file_reporter.h

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/*

test_string.cpp

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_valarray.cpp

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hashtable.c

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*/

#ifndef _STLP_UTILITY

#ifndef _STLP_OUTERMOST_HEADER_ID

define _STLP_OUTERMOST_HEADER_ID 0x75

include <stl/_prolog.h>

#elif (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)

define _STLP_DONT_POP_HEADER_ID

define _STLP_UTILITY

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)

ifndef _STLP_INTERNAL_PAIR_H

include <stl/_pair.h>

endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x75) || defined (_STLP_DONT_POP_HEADER_ID) || defined

```

(_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <utility>
# else
#   include _STLP_NATIVE_HEADER(utility)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75)
# if !defined (_STLP_DONT_POP_HEADER_ID)
#   include <stl/_epilog.h>
#   undef _STLP_OUTERMOST_HEADER_ID
# else
#   undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#endif /* _STLP_UTILITY */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_deque.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_valarray.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_heap.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numeric.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tempbuf.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_list.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_vector.c
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```

```
#ifndef _STLP_CWCHAR
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x120
# define _STLP_CWCHAR
# include <stl/_prolog.h>
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x120)
# ifndef _STLP_INTERNAL_CWCHAR
# include <stl/_cwchar.h>
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x120) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
```

```
# include_next <wchar>
# else
# include _STLP_NATIVE_CPP_C_HEADER(wchar)
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x120)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
```

```
#endif /* _STLP_CWCHAR */
```

```
// Local Variables:
// mode:C++
// End:
```

Found in path(s):

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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_limits.c
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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/stlport/stl/_string_sum_methods.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_operators.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_tools.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_sum.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/stlport/stl/debug/_string_sum_methods.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_slist.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_list.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_vector.h

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstdarg.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/stlport/stl/config/user_config.h

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*
*/
// version.
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stream_iterator.h
```

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```
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*
*/
/* Default values based on C++ Standard 22.2.1.
* Under Windows the localisation implementation take care of mapping its
* mask values to those internal values. For other platforms without real
* localization support we are free to use the most suitable values.*/*
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/c_locale.h

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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cwctype.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/istream.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstring.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdlib.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/float.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstdlib.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/stl_confix.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstddef.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/wctype.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/errno.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdio.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/mem.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/assert.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/wchar.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/signal.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/typeinfo.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ctime.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_locale.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_csignal.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_csetjmp.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cmath.h


```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdarg.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ctype.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iso646.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_typeinfo.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/locale.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stddef.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstdio.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_mbstate_t.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/exception.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/math.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/time.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_new.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/setjmp.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctype.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cwchar.h
```

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```
*
```

```
*/
```

```
#ifndef _STLP_LIMITS
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x39
```

```
# include <stl/_prolog.h>
```

```
# define _STLP_LIMITS
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
```

```
# ifndef _STLP_INTERNAL_LIMITS
```

```

# include <stl/_limits.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x39) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <limits>
# else
# include _STLP_NATIVE_HEADER(limits)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_LIMITS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits
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*
*/

#endif _STLP_CSIGNAL

#endif _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x112
# define _STLP_CSIGNAL
# include <stl/_prolog.h>

```

```

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x112)
# ifndef _STLP_INTERNAL_CSIGNAL
#  include <stl/_csignal.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x112) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <csignal>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(csignal)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x112 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSIGNAL */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csignal
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*
*/

```
#ifndef _STLP_ALGORITHM
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x1  
# include <stl/_prolog.h>  
# define _STLP_ALGORITHM  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x1)  
# ifndef _STLP_INTERNAL_CSTDIO  
// remove() conflicts, <cstdio> should always go first  
# include <stl/_cstdio.h>  
# endif
```

```
# ifndef _STLP_INTERNAL_ALGO_H  
# include <stl/_algo.h>  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x1) || defined (_STLP_IMPORT_VENDOR_STD)  
# if defined (_STLP_HAS_INCLUDE_NEXT)  
# include_next <algorithm>  
# else  
# include _STLP_NATIVE_HEADER(algorithm)  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x1 )  
# include <stl/_epilog.h>  
# undef _STLP_OUTERMOST_HEADER_ID  
#endif
```

```
#endif /* _STLP_ALGORITHM */
```

```
// Local Variables:  
// mode:C++  
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/algorithm

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 *
 */

#ifndef _STLP_CERRNO
#define _STLP_CERRNO

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x105
# include <stl/_prolog.h>
#endif

#ifndef _STLP_WCE
# if defined (_STLP_USE_NEW_C_HEADERS)
#   if defined (_STLP_HAS_INCLUDE_NEXT)
#     include_next <cerrno>
#   else
#     include _STLP_NATIVE_CPP_C_HEADER(cerrno)
#   endif
# else
#   include <errno.h>
# endif
#endif

#ifndef errno /* errno is not a macro */
# if defined (_STLP_IMPORT_VENDOR_CSTD)
#   if !defined (__IBMCPP__) && !defined (__hpux) && !defined (__MWERKS__) && !defined (_STLP_WCE)
_STLP_BEGIN_NAMESPACE
using _STLP_VENDOR_CSTD::errno;
_STLP_END_NAMESPACE
#   endif
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x105 )
```

```
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
```

```
#endif /* _STLP_CERRNO */
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cerrno

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```
/******
```

```
test_set.cpp
```

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```
*****
```

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```
/*
```

```
*
```

```
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```
*
```

*/

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/boost_type_traits.h
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NC_ALLOC.CPP

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***/
*/

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*

*/

#ifndef _STLP_CSTRING

#ifndef _STLP_OUTERMOST_HEADER_ID

define _STLP_OUTERMOST_HEADER_ID 0x117

define _STLP_CSTRING

```

# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
# ifndef _STLP_INTERNAL_CSTRING
#   include <stl/_cstring.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x117) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <cstring>
# else
#   include _STLP_NATIVE_CPP_C_HEADER(cstring)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSTRING */

```

// Local Variables:

// mode:C++

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring

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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/CC.mak

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/freebsd/sys.mak

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/gcc.mak

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/freebsd/targetsys.mak

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/CC.mak

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/dmc.mak

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-

5.2.1/build/Makefiles/gmake/unix/lib.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/sunos/targetsys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/targets.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/hp-
ux/targetsys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/bcc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/unix/rules-install-so.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/aCC.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/subdirs.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/depend.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/top.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/aCC.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/rules-install-a.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/linux/targetsys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/clean.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/CC.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/top.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/sysid.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/extern.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/targetdirs.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/icc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/aCC.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/bcc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/rules-a.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/gcc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-

5.2.1/build/Makefiles/gmake/app/rules.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/vc6.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/dmc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/clean.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/hp-
ux/sys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/icc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/bcc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/Makefile
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/sunos/sys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/darwin/targetsys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/vc6.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/unix/rules-so.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/rules-install.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/darwin/sys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/linux/sys.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/top.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/icc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/darwin/lib.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/gcc.mak
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
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*/

```
#ifndef _STLP_TYPEINFO
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x473
```

```
# include <stl/_prolog.h>
```

```
#elif (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
```

```
# define _STLP_DONT_POP_HEADER_ID
```

```
# define _STLP_TYPEINFO
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
```

```
# ifndef _STLP_INTERNAL_TYPEINFO
```

```
# include <stl/_typeinfo.h>
```

```
# endif
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x473) || defined (_STLP_DONT_POP_HEADER_ID) || defined  
(_STLP_IMPORT_VENDOR_STD)
```

```
# if defined (_STLP_HAS_INCLUDE_NEXT)
```

```
# include_next <typeinfo>
```

```
# else
```

```
# include _STLP_NATIVE_CPP_RUNTIME_HEADER(typeinfo)
```

```
# endif
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x473)
```

```
# if !defined (_STLP_DONT_POP_HEADER_ID)
```

```
# include <stl/_epilog.h>
```

```
# undef _STLP_OUTERMOST_HEADER_ID
```

```
# else
```

```
# undef _STLP_DONT_POP_HEADER_ID
```

```
# endif
```

```
#endif
```

```
#endif
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

```
Found in path(s):
```

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/typeinfo
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```
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*  
*/
```

```
#ifndef _STLP_CISO646  
#define _STLP_CISO646
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x107  
# include <stl/_prolog.h>  
#endif
```

```
#if !defined(_STLP_WCE_EVC3) && !defined(__BORLANDC__)  
# if defined (_STLP_USE_NEW_C_HEADERS)  
#   if defined (_STLP_HAS_INCLUDE_NEXT)  
#     include_next <ciso646>  
#   else  
#     include _STLP_NATIVE_CPP_C_HEADER(ciso646)  
#   endif  
# else  
#   include <iso646.h>  
# endif /* _STLP_USE_NEW_C_HEADERS */  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x107 )  
# include <stl/_epilog.h>  
# undef _STLP_OUTERMOST_HEADER_ID  
#endif
```

```
#endif /* _STLP_CISO646 */
```

```
// Local Variables:  
// mode:C++  
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ciso646

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/*****

test_algobase.cpp

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_algobase.cpp

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/*****

test_assign_op.h

SUMMARY: Test functor template for assignment operators.

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_assign_op.h

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*/
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/unordered_set
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/unordered_map
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```

```
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*
*/
```

```
#ifndef _STLP_IOSFWD
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1034
# include <stl/_prolog.h>
# define _STLP_IOSFWD
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x1034) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>
```

```
# ifndef _STLP_INTERNAL_IOSFWD
#   include <stl/_iosfwd.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1034) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <iosfwd>
# else
#   include _STLP_NATIVE_HEADER(iosfwd)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1034)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_IOSFWD */
```

// Local Variables:

// mode:C++

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iosfwd

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*/

#ifndef _STLP_QUEUE

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x53
# include <stl/_prolog.h>
# define _STLP_QUEUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
# ifndef _STLP_INTERNAL_QUEUE_H
#   include <stl/_queue.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x53) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <queue>
# else
#   include _STLP_NATIVE_HEADER(queue)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_QUEUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/queue
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*/

```
#ifndef _STLP_CSTDIO
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x15
```

```
# include <stl/_prolog.h>
```

```
#elif (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
```

```
# define _STLP_DONT_POP_HEADER_ID
```

```
# define _STLP_CSTDIO
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
```

```
# ifndef _STLP_INTERNAL_CSTDIO
```

```
# include <stl/_cstdio.h>
```

```
# endif
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x15) || defined (_STLP_DONT_POP_HEADER_ID) || defined  
(_STLP_IMPORT_VENDOR_STD)
```

```
# if defined (_STLP_HAS_INCLUDE_NEXT)
```

```
# include_next <cstdio>
```

```
# else
```

```
# include _STLP_NATIVE_CPP_C_HEADER(cstdio)
```

```
# endif
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x15)
```

```
# if !defined (_STLP_DONT_POP_HEADER_ID)
```

```
# include <stl/_epilog.h>
```

```
# undef _STLP_OUTERMOST_HEADER_ID
```

```
# else
```

```
# undef _STLP_DONT_POP_HEADER_ID
```

```
# endif
```

```
#endif
```

```
#endif
```

```
// Local Variables:
```

```
// mode:C++
```

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdio
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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_carray.h
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*

```

*/

#ifndef _STLP_DEQUE

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x22
# include <stl/_prolog.h>
# define _STLP_DEQUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
# ifndef _STLP_INTERNAL_DEQUE_H
#  include <stl/_deque.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x22) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <deque>
# else
#  include _STLP_NATIVE_HEADER(deque)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_DEQUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/deque
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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numeric.h

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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_fstream.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/functional
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/char_traits.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept_base.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/hash_map
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_rope.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/hash_set
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept_base.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept.h

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*
*/
```

Found in path(s):

```
*/opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist.c
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*
*/
```

```
#ifndef _STLP_IOS
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1032
# include <stl/_prolog.h>
# define _STLP_IOS
#endif
```

```

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_IOS_H
# include <stl/_ios.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1032) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <ios>
# else
# include _STLP_NATIVE_HEADER(ios)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_IOS */

```

// Local Variables:

// mode:C++

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios

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```

*/
// This header defines classes basic_stringbuf, basic_istream,
// basic_ostringstream, and basic_stringstream. These classes
// represent streambufs and streams whose sources or destinations are
// C++ strings.

#ifndef _STLP_SSTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1059
# include <stl/_prolog.h>
# define _STLP_SSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1059) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_SSTREAM
#   include <stl/_sstream.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1059) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <sstream>
# else
#   include _STLP_NATIVE_HEADER(ssstream)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1059)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_SSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/sstream
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*

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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stlport_version.h
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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/src/c_locale_win32/c_wlocale_win32.c
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/******

test_vector.cpp

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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_vector.cpp

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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_auto_ptr.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_io.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/lock_free_slist.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_hash.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/memory

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*
*/

#ifndef _STLP_CSTDDEF

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x114
# define _STLP_CSTDDEF
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114)
# ifndef _STLP_INTERNAL_CSTDDEF
# include <stl/_cstddef.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x114) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cstddef>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cstddef)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSTDDEF */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstddef
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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_native_headers.h

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*
*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/c_locale_win32/c_locale_win32.c

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=====
STLport README for Microsoft Visual C++ compilers.
=====

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

=====

Introduction

=====

This document describes how STLport can be compiled and used with Microsoft Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or questions visit STLport mailing lists

<http://stlport.sourceforge.net/Maillists.shtml> or forums

https://sourceforge.net/forum/?group_id=146814

=====

Prerequisites

=====

To build and use STLport you will need following tools and libraries:

- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher version.

=====

Configuring STLport

=====

In a console window go to the STLport build/lib folder. Run

```
configure --help
```

This command will present you the different available build options. Just follow the instructions to set STLport configuration according your needs. The only mandatory configuration is to declare what is the compiler you are going to use, for MSVC 6 it is:

```
configure -c msvc6
```

=====

Building STLport

=====

This is a step by step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending on your Windows OS.
2. Go to MSVC++ Bin directory with a default MSVC6 install it is

```
cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"
```
3. Run the vcvars32.bat script. This sets the environment variables required to have the MSVC++ compiler run during the build process. The most important one is the PATH variable so that you can call the cl.exe command which is the MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths to access command-line tools' during Microsoft Visual Studio installation procedure.]

4. Go to the STLport build/lib folder:

```
cd C:\STLport\build\lib
```

5. Run the following command:

```
nmake /fmsvc.mak install
```

nmake is the make utility from Microsoft. /f is an nmake option telling it which make file script to use. You have of course to grant the closer make file to your effective compiler, msvc.mak in our case.

Once the command returns, you will have all the necessary libraries within the STLport lib folder. For a description of the generated libraries check the README file within the src folder.

```
=====
```

Testing STLport

```
=====
```

You can use the unit tests to verify STLport behaves correctly. Change into STLports 'build/test/unit' folder and type:

```
nmake /fmsvc.mak install
```

Once the unit test is built you just need to run it. They can be found within the STLport bin folder.

```
=====
```

Using STLport

```
=====
```

Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories' for MSVC6 IDE). In the include files add the path to STLport's 'stlport' folder. Make sure it is the first directory listed there. Add STLport's 'lib' folder for the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc projects:

If you don't want to use the iostreams part of the library, you can specify the define `_STLP_NO_IOSTREAMS`. In this mode there is no need to link against the library.

STLport uses automatic linking to find the proper .lib file. If you want to see what import library STLport is going to use, define `_STLP_VERBOSE_AUTO_LINK`. When not using automatic linking (by specifying `_STLP_DONT_USE_AUTO_LINK`), you have to specify the proper .lib file in the Project Settings, on the "link" tab. The .lib names have the following syntax:

```
stlport[d|std][[_x,_static,_statix].<STLport-Version>.lib
```

d : debug build
stdl: debug build with `_STLP_DEBUG` (STL safe) mode
`_x`: Build of STLport as a dll but statically link to the native runtime.
`_static` : build of a static library
`_statrix` : build of a static library link dynamically to the native runtime.

Examples:

stlport_static.5.0.lib - static release version, Version 5.0.0
stlportd.5.0.lib - dll debug version, Version 5.0.0

When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your `Stdafx.h`. This way STLport correctly recognizes MFC usage. You also can define the macro `_STLP_USE_MFC`, either in your project settings or in `stlport/stl/config/user_config.h`.

In order to enhance debugging with STLport you can optionally add the content of the `etc/autoexp.dat` file in the `autoexp.dat` file coming with your Visual Studio install.

Now you should be ready to use STLport.

=====
Known issues
=====

1. InterlockedIncrement

If you experiment trouble with the `InterlockedIncrement` Win32 API function like the following message:

```
C:\Program Files\Microsoft SDK\Include\.\winbase.h(1392) : error C2733: second C linkage of overloaded function 'InterlockedIncrement' not allowed  
C:\Program Files\Microsoft SDK\Include\.\winbase.h(1390) : see declaration of 'InterlockedIncrement'
```

It means that you are using the new Microsoft platform SDK. There is no way to know it from STLport code so you have to signal it in the `stlport/stl/config/user_config.h` file (uncomment `_STLP_NEW_PLATFORM_SDK` in this file).

2. Native C/C++ library headers location

If you experiment trouble with location of `ctime` and other Standard headers while building or using STLport you might be using the compiler coming with a platform SDK. If so please uncomment `_STLP_USING_PLATFORM_SDK_COMPILER` in `stlport/stl/config/user_config.h`. If it still do not find native headers you will perhaps need to change native headers relative path used by STLport. In this case use `_STLP_NATIVE_INCLUDE_PATH` and associated macro in `stlport/stl/config/host.h`.

4. C symbols in std namespace

The compiler of MSVC++ 6 has a bug when dealing with symbols existant in both the global namespace and symbols imported by a using-directive or a using-declaration - it will report an ambiguous call to an overloaded function (error C2668). Example:

```
void function();
namespace ns {
    void function();
    // or:
    // using ::function;
}

using ns::function;
// or:
// using namespace ns;

void call() {
    function();
}
```

Since we anticipate that using-declarations or even using-directives are common use, STLport by default doesn't import or wrap functions that exist in both the global namespace and namespace std, in particular those are functions with C origin like fopen() or abs(). Also, it defines additional overloads for functions like abs() (overloaded for int, long, float, double, long double) in the global namespace.

In order to make STLport include them in the std namespace, you can define the `_STLP_DO_IMPORT_CSTD_FUNCTIONS` macro. Doing so, you will have to explicitly scope all your functions calls like `std::abs()` though - otherwise you only get the global `abs(int)` from the C library.

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/doc/README.msvc
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*/
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_abbrevs.h  
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*  
*/
```

```
#ifndef _STLP_CSTDLIB
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x116  
# define _STLP_CSTDLIB  
# include <stl/_prolog.h>  
#endif
```

```
# if defined (__GNUC__) && defined (__MINGW32__)  
/* Native cstdlib includes stdlib.h using an include_next so STLport stdlib.h  
* is not used and the workaround in this file must be duplicated here  
* (see stdlib.h). */  
# include "errno.h"  
# endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x116)  
# ifndef _STLP_INTERNAL_CSTDLIB  
# include <stl/_cstdlib.h>  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x116) || defined (_STLP_IMPORT_VENDOR_STD)
```



```
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cstdlib>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cstdlib)
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
```

```
#endif /* _STLP_CSTDLIB */
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdlib

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```
/*****
```

```
random_number.h
```

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```
*****/
```

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/random_number.h

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```
/*
```

```
*
```

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*
*/

```
#ifndef _STLP_ITERATOR
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x38  
# include <stl/_prolog.h>  
# define _STLP_ITERATOR  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x38)  
# ifndef _STLP_INTERNAL_ITERATOR_H  
# include <stl/_iterator.h>  
# endif
```

```
# ifndef _STLP_INTERNAL_STREAM_ITERATOR_H  
# include <stl/_stream_iterator.h>  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x38) || defined (_STLP_IMPORT_VENDOR_STD)  
# if defined (_STLP_HAS_INCLUDE_NEXT)  
# include_next <iterator>  
# else  
# include _STLP_NATIVE_HEADER(iterator)  
# endif  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x38)  
# include <stl/_epilog.h>  
# undef _STLP_OUTERMOST_HEADER_ID
```

```

#endif

#endif /* _STLP_ITERATOR */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iterator
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*/

// This header defines classes basic_filebuf, basic_ifstream,
// basic_ofstream, and basic_fstream. These classes represent
// streambufs and streams whose sources or destinations are files.

#ifndef _STLP_FSTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1025
# include <stl/_prolog.h>
# define _STLP_FSTREAM
# if defined (__DMC__) && defined (_DLL)
# define _STLP_CLASS_IMPORT_DECLSPEC __declspec(dllimport)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1025) && \
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))

```

```

# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_FSTREAM_H
#   include <stl/_fstream.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1025) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <fstream>
# else
#   include _STLP_NATIVE_HEADER(fstream)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1025)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# if defined (__DMC__) && defined (_DLL)
#   undef _STLP_CLASS_IMPORT_DECLSPEC
#   define _STLP_CLASS_IMPORT_DECLSPEC
# endif
#endif

#endif /* _STLP_FSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream
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/* boost limits_test.cpp  test your <limits> file for important
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```

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*

* Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
* insert_equal with valid hint -- efficiency is improved all around, and it is
* should now be standard conforming for complexity on insert point immediately
* after hint (amortized constant time).

*

*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tree.c

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*

* Derived from original <misc/type_traits.h> of 'complement' project

* [<http://complement.sourceforge.net>]

* to make it close to JTC1/SC22/WG21 C++ 0x working draft
* [http://www.open-std.org/Jtc1/sc22/wg21/docs/papers/2008/n2521.pdf]
*/

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/type_traits
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test_deque.cpp

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*/

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_deque.cpp
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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_npos.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_set.h
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*
*/
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iostream_string.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_deque.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/stlport/stl/_string_workaround.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_map.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_set.h
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*
*/
```

```
#ifndef _STLP_ISTREAM
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1036
# include <stl/_prolog.h>
# define _STLP_ISTREAM
#endif
```

```

#if (_STLP_OUTERMOST_HEADER_ID == 0x1036) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_ISTREAM
#   include <stl/_istream.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1036) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <istream>
# else
#   include _STLP_NATIVE_HEADER(istream)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1036)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

```

```

#endif /* _STLP_ISTREAM */

```

```

// Local Variables:
// mode:C++
// End:

```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/istream
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```

/*****

```

test_insert.h

```

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```

```

*****/

```


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*/

#ifndef _STLP_CCTYPE

#ifndef _STLP_OUTERMOST_HEADER_ID

define _STLP_OUTERMOST_HEADER_ID 0x104

define _STLP_CCTYPE

include <stl/_prolog.h>

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104)

ifndef _STLP_INTERNAL_CCTYPE

include <stl/_cctype.h>

endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x104) || defined (_STLP_IMPORT_VENDOR_STD)

if defined (_STLP_HAS_INCLUDE_NEXT)

include_next <cctype>

else

include _STLP_NATIVE_CPP_C_HEADER(cctype)

endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104)

include <stl/_epilog.h>

undef _STLP_OUTERMOST_HEADER_ID

#endif

#endif /* _STLP_CCTYPE */

// Local Variables:

// mode:C++

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cctype

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_system.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/stlport/stl/config/stl_mycomp.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_cray.h

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```

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*/
#ifndef _STLP_OSTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1050
# include <stl/_prolog.h>
# define _STLP_OSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_OSTREAM
#   include <stl/_ostream.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1050) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <ostream>
# else
#   include _STLP_NATIVE_HEADER(ostream)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_OSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream
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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/concept_checks.h

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*/

```
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x103
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x103) && ! defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
#endif
```

```
#if !defined (_STLP_WCE_EVC3)
# if defined (_STLP_USE_NEW_C_HEADERS)
#   if defined (_STLP_HAS_INCLUDE_NEXT)
#     include_next <cassert>
#   else
#     include _STLP_NATIVE_CPP_C_HEADER(cassert)
#   endif
# else
#   include <assert.h>
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x103 )
# if !defined (_STLP_DONT_POP_HEADER_ID)
#   include <stl/_epilog.h>
#   undef _STLP_OUTERMOST_HEADER_ID
# else
#   undef _STLP_DONT_POP_HEADER_ID
# endif
#endif
```

```
// Local Variables:
// mode:C++
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cassert

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*/
```

```
#ifndef _STLP_IOMANIP
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1030
# include <stl/_prolog.h>
# define _STLP_IOMANIP
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x1030) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>
```

```
# ifndef _STLP_INTERNAL_IOMANIP
# include <stl/_iomanip.h>
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x1030) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iomanip>
# else
# include _STLP_NATIVE_HEADER(iomanip)
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x1030)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
```

```
#endif /* _STLP_IOMANIP */
```

```
// Local Variables:
// mode:C++
// End:
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip
```

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```

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 */

#ifndef _STLP_STRING

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x68
# include <stl/_prolog.h>
# define _STLP_STRING
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
# ifndef _STLP_INTERNAL_STRING_H
# include <stl/_string.h>
# endif

# ifndef _STLP_STRING_HASH_H
# include <stl/_string_hash.h>
# endif

# if !defined (_STLP_USE_NO_IOSTREAMS) && !defined (_STLP_STRING_IO_H)
# include <stl/_string_io.h>
# endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <string>
# else
# include _STLP_NATIVE_HEADER(string)
# endif
#endif

```



```
#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
```

```
#endif /* _STLP_STRING */
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string

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```
/**/
```

Tests.h

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SUMMARY: Declarations of all of the tests in the exception test suite.

```
****/
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/Tests.h

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*
*/
// WARNING: The classes defined in this header are DEPRECATED. This
// header is defined in section D.7.1 of the C++ standard, and it
// MAY BE REMOVED in a future standard revision. You should use the
// header <sstream> instead.

#ifndef _STLP_STRSTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1070
# include <stl/_prolog.h>
# define _STLP_STRSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070) && \
    !(defined(_STLP_NO_IOSTREAMS) && defined(_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_STRSTREAM
#   include <stl/_strstream.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1070) || defined(_STLP_IMPORT_VENDOR_STD)
/* Even if deprecated strstream header is still part of the Standard. Remove
* _STLP_IMPORT_VENDOR_STD check if the native compiler library do not grant
* it anymore. */
# if defined(_STLP_HAS_INCLUDE_NEXT)
#   include_next <strstream>
# else
#   include _STLP_NATIVE_HEADER(strstream)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_STRSTREAM */

// Local Variables:

```

```
// mode:C++
```

```
// End:
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream
```

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```

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```

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```

```
*
```

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```

```
*
```

```
*/
```

```
#ifndef _STLP_VECTOR
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x77
```

```
# include <stl/_prolog.h>
```

```
# define _STLP_VECTOR
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
```

```
# ifndef _STLP_INTERNAL_ALGOBASE_H
```

```
# include <stl/_algbase.h>
```

```
# endif
```

```
# ifndef _STLP_INTERNAL_VECTOR_H
```

```
# include <stl/_vector.h>
```

```
# endif
```

```
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID != 0x77) || defined (_STLP_IMPORT_VENDOR_STD)
```

```
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <vector>
# else
# include _STLP_NATIVE_HEADER(vector)
# endif
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
```

```
#endif /* _STLP_VECTOR */
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/vector

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```
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```

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```
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```

```
*
```

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```

```
*
```

```
*/
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-
5.2.1/test/unit/cppunit/cppunit_timer.h

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```
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```

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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string.c

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*
*/

#ifndef _STLP_LIST

```

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x40
# include <stl/_prolog.h>
# define _STLP_LIST
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
# ifndef _STLP_INTERNAL_LIST_H
# include <stl/_list.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x40) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <list>
# else
# include _STLP_NATIVE_HEADER(list)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_LIST */

```

// Local Variables:

// mode:C++

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/list

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/*

*/

test_bitset.cpp

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_bitset.cpp

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*

*/

```
#ifndef _STLP_PTHREAD_ALLOC
```

```
#define _STLP_PTHREAD_ALLOC
```

```
# ifndef _STLP_OUTERMOST_HEADER_ID
```

```
# define _STLP_OUTERMOST_HEADER_ID 0x52
```

```
# include <stl/_prolog.h>
```

```
# endif
```

```
# ifdef _STLP_PRAGMA_ONCE
```

```
# pragma once
```

```
# endif
```

```
# include <stl/_pthread_alloc.h>
```

```
# if (_STLP_OUTERMOST_HEADER_ID == 0x52)
```

```
# include <stl/_epilog.h>
```

```
# undef _STLP_OUTERMOST_HEADER_ID
```

```
# endif
```

```
#endif /* _STLP_PTHREAD_ALLOC */
```

```
// Local Variables:
```

```
// mode:C++
```

```
// End:
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread_alloc
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_exception.h
```

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```
/*
```

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*
```

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```

```
*
```


*/

Found in path(s):

- * /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/type_manips.h
- * /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_move_construct_fw.h

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test_rope.cpp

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- * /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_rope.cpp

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/*****

TestController.h

SUMMARY: An "faux-singleton" object to encapsulate a hodgepodge of state and functionality relating to the test suite. Probably should be broken into smaller pieces.

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*****/

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/nc_alloc.h

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test_construct.h

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*****/

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Prefix.h

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SUMMARY: Configuration #defines for STL EH test suite

*****/

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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bitset.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bitset.c
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/bitset.cpp
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*
*/

```
#ifndef _STLP_NEW_HEADER
```

```
#ifndef _STLP_OUTERMOST_HEADER_ID  
# define _STLP_OUTERMOST_HEADER_ID 0x447  
# define _STLP_NEW_HEADER  
# include <stl/_prolog.h>  
#endif
```

```
#if (_STLP_OUTERMOST_HEADER_ID == 0x447)  
# ifndef _STLP_NEW_H_HEADER  
# include <stl/_new.h>
```

```

# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x447) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <new>
# else
# include _STLP_NATIVE_CPP_RUNTIME_HEADER(new)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_NEW */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new
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*
*/

#ifndef _STLP_CMATH

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x110
# include <stl/_prolog.h>
# elif (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID

```

```

# define _STLP_CMATH
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CMATH
# include <stl/_cmath.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x110) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cmath>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cmath)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#endif /* _STLP_CMATH */

```

// Local Variables:

// mode:C++

// End:

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cmath

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/*

*/

test_hash_map.cpp

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* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_hash_map.cpp
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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_base.h
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_windows.h
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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/features.h
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*/

#ifndef _STLP_CLOCALE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x109
#define _STLP_CLOCALE
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
#ifndef _STLP_INTERNAL_CLOCALE
#include <stl/_clocale.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x109) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <clocale>
#else
#include _STLP_NATIVE_CPP_C_HEADER(clocale)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CLOCALE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/clocale

```


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 *
 */

#ifndef _STLP_CFLOAT
#define _STLP_CFLOAT

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x106
# include <stl/_prolog.h>
#endif

// Borland defines some implementation constants in std:: namespace,
// we do not want to import them.
#if defined (_STLP_USE_NEW_C_HEADERS) && !defined (__BORLANDC__)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <cfloat>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(cfloat)
# endif
#else
# include <float.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x106 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CFLOAT */

// Local Variables:
// mode:C++
// End:
```

Found in path(s):

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TestClass.h

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SUMMARY: TestClass simulates a class that uses resources. It is designed to
cause exceptions when it is constructed or copied.

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/TestClass.h

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*

*/

```
/*
* Boris : simulation technique is used here according to Adobe Open Source License Version 1.0.
* Copyright 2000 Adobe Systems Incorporated and others. All rights reserved.
* Authors: Mat Marcus and Jesse Jones
* The original version of this source code may be found at
* http://opensource.adobe.com.
*/
```

Found in path(s):

```
*/opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/type_traits.h
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```

```
/*
test_hash_resize.h
```

```

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```
*/
```

Found in path(s):

```
*/opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_hash_resize.h
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```

```
/*
test_bit_vector.cpp
```

```

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```

```
*/
```

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_bit_vector.cpp

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*/

#ifndef _STLP_SET

#ifndef _STLP_OUTERMOST_HEADER_ID

define _STLP_OUTERMOST_HEADER_ID 0x55

include <stl/_prolog.h>

define _STLP_SET

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)

ifndef _STLP_INTERNAL_SET_H

include <stl/_set.h>

endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x55) || defined (_STLP_IMPORT_VENDOR_STD)

if defined (_STLP_HAS_INCLUDE_NEXT)

include_next <set>

else

include _STLP_NATIVE_HEADER(set)

```
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_SET */
```

```
// Local Variables:
// mode:C++
// End:
```

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/set
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/*

*/

TestClass.cpp

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*/

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/*

*/

random_number.cpp

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*/

Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_base.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_old.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function.h

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function_base.h

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*/

#ifndef _STLP_STDEXCEPT

#if !defined (_STLP_OUTERMOST_HEADER_ID)
# define _STLP_OUTERMOST_HEADER_ID 0x63
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x63) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_STDEXCEPT
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# ifndef _STLP_INTERNAL_STDEXCEPT
# include <stl/_stexcept.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x63) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <stexcept>
# else
# include _STLP_NATIVE_HEADER(stexcept)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#endif /* _STLP_STDEXCEPT */

```

```

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

#ifndef _STLP_CSTDARG

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x113
# define _STLP_CSTDARG
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113)
# ifndef _STLP_INTERNAL_CSTDARG
# include <stl/_cstdarg.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x113) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cstdarg>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cstdarg)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID

```



```

#endif

#endif /* _STLP_CSTDARG */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

#ifndef _STLP_BITSET

// This implementation of bitset<> has a second template parameter,
// _WordT, which defaults to unsigned long. *YOU SHOULD NOT USE
// THIS FEATURE*. It is experimental, and it may be removed in
// future releases.

// A bitset of size N, using words of type _WordT, will have
// N % (sizeof(_WordT) * CHAR_BIT) unused bits. (They are the high-
// order bits in the highest word.) It is a class invariant
// of class bitset<> that those unused bits are always zero.

// Most of the actual code isn't contained in bitset<> itself, but in the
// base class _Base_bitset. The base class works with whole words, not with
// individual bits. This allows us to specialize _Base_bitset for the
// important special case where the bitset is only a single word.

// The C++ standard does not define the precise semantics of operator[].

```

```

// In this implementation the const version of operator[] is equivalent
// to test(), except that it does no range checking. The non-const version
// returns a reference to a bit, again without doing any range checking.

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x2
# include <stl/_prolog.h>
# define _STLP_BITSET
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2)
# ifndef _STLP_INTERNAL_BITSET
# include <stl/_bitset.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x2) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <bitset>
# else
# include _STLP_NATIVE_HEADER(bitset)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_BITSET */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/
#endif _STLP_STREAMBUF

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1066
# include <stl/_prolog.h>
# define _STLP_STREAMBUF
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066) && \
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_STREAMBUF
#   include <stl/_streambuf.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1066) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <streambuf>
# else
#   include _STLP_NATIVE_HEADER(streambuf)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_STREAMBUF */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf
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Found in path(s):

* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_hash_set.cpp
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*/

#ifndef _STLP_STACK

#ifndef _STLP_OUTERMOST_HEADER_ID
define _STLP_OUTERMOST_HEADER_ID 0x60
include <stl/_prolog.h>
define _STLP_STACK
#endif

```

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
# ifndef _STLP_INTERNAL_STACK_H
#  include <stl/_stack.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x60) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <stack>
# else
#  include _STLP_NATIVE_HEADER(stack)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_STACK */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stack
No license file was found, but licenses were detected in source scan.

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*/

#endif _STLP_COMPLEX

```

```

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x10
# define _STLP_COMPLEX
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
// This header declares the template class complex, as described in
// in the C++ Standard. Single-precision complex numbers
// are complex<float>, double-precision are complex<double>, and
// quad precision are complex<long double>.

// Note that the template class complex is declared within namespace
// std, as called for by the draft C++ standard
# ifndef _STLP_INTERNAL_COMPLEX
# include <stl/_complex.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x10) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <complex>
# else
# include _STLP_NATIVE_HEADER(complex)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_COMPLEX */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1086232212_1605876575.39/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/complex

```

1.511 kerberos 1.10.3-42z1.el6_7

1.511.1 Available under license :

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cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_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
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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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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:

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
kprop/kproplog.c

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1.517 commons-dbcp 1.4

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1.518 junit 4.8.2

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1.525 json-java 20070829

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*/

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* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONWriter.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONStringer.java

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* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTP.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XMLTokener.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONTokener.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONArray.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONObject.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CookieList.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XML.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTPTokener.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-

sources-jar/org/json/Cookie.java

* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-

sources-jar/org/json/CDL.java

1.526 codemodel 2.6

1.527 libedit 2.11-4.20080712cvs.1.el6

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1.528 httpasyncclient 4.0-beta3

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1.529 cyrus-sasl 2.1.23

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* Rob Siemborski

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Ty Coon, President of Vice
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```
</pre>  
# This file contains a list of people who've made non-trivial  
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# who commit code to the project are encouraged to add their names
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here. Please keep the list sorted by first names.

Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
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Markus Heule <markus.heule@gmail.com>
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Paul Menage <menage@google.com>
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Sverre Sundsdal <sunds@sdal@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
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Zhanyong Wan <wan@google.com>

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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Theodore Ts'o
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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.

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1.533 commons-beanutils 1.9.3

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1.534 libnl3 3.2

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1.537 joda-time 1.6.2

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1.539 activation 1.1

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* @(#)SecuritySupport.java 1.3 05/11/16
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*/
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* @(#)CommandInfo.java 1.11 05/11/16
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* @(#)ImageViewerCanvas.java 1.3 05/11/16
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*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/viewers/ImageViewerCanvas.java
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* @(#)DataContentHandlerFactory.java 1.6 05/11/16
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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* @(#)URLDataSource.java 1.10 05/11/16
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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* @(#)MailcapCommandMap.java 1.40 05/11/16
*
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/MailcapCommandMap.java
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/*
```

* @(#)MimeTypeParameterList.java 1.11 05/11/16
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MimeTypeParameterList.java

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/*

* @(#)CommandMap.java 1.19 05/11/16
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/*
* @(#)MimeTypeParseException.java 1.6 05/11/16
*
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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
* @(#)DataHandler.java 1.39 05/11/16
*
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*/

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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/DataHandler.java

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/*

* @(#)UnsupportedDataException.java 1.9 05/11/16

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/*
* @(#)FileTypeMap.java 1.8 05/11/16
*
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*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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/*
* @(#)MimeType.java 1.19 05/11/16
*
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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-  
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*/
```

```
/*
```

```
* @(#)MimeTypeEntry.java 1.4 05/11/16
```

```
*
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-  
jar/com/sun/activation/registries/MimeTypeEntry.java
```

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* @(#)TextViewer.java 1.9 05/11/16
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/viewers/TextViewer.java
```

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/*
* @(#)FileDataSource.java 1.9 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/FileDataSource.java
```

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/*
 * @(#)LogSupport.java 1.4 05/11/16
 *
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 */
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jar/com/sun/activation/registries/LogSupport.java
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* @(#)DataContentHandler.java 1.16 05/11/16
*
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*/
```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/DataContentHandler.java
```

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/*
* @(#)ActivationDataFlavor.java 1.14 05/11/16
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/javax/activation/ActivationDataFlavor.java
```

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/*
* @(#)MimeTypeFile.java 1.8 05/11/16
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
jar/com/sun/activation/registries/MimeTypeFile.java
```

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*/
/*
* @(#)TextEditor.java 1.8 05/11/16
*
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```

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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```
*/
/*
* @(#)MailcapFile.java 1.23 05/11/16
*
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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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/*
* @(#)MailcapTokenizer.java 1.6 05/11/16
*
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* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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@(#)package.html 1.1 05/11/16

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/*

* @(#)MailcapParseException.java 1.4 05/11/16

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/*
* @(#)MimetypesFileTypeMap.java 1.17 05/11/16
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```
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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```

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* @(#)ImageViewer.java 1.8 05/11/16

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*/

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*/
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* @(#)CommandObject.java 1.9 05/11/16
*
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*/

```

Found in path(s):

```

* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
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1.540 slang 2.2.1-1.e16

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*
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*/
diff -up cronie-1.4.4/src/crontab.c.676081 cronie-1.4.4/src/crontab.c
--- cronie-1.4.4/src/crontab.c.676081 2011-02-17 14:56:59.210863896 +0100
+++ cronie-1.4.4/src/crontab.c 2011-02-17 14:59:41.412874958 +0100
@@ -713,7 +713,7 @@ static int replace_cmd(void) {
    goto done;
}

- file_owner = (getgid() == getegid())? ROOT_UID : pw->pw_uid;
+ file_owner = (getgid() == geteuid() && getgid() == getegid()) ? ROOT_UID : pw->pw_uid;

#ifdef HAS_FCHOWN
if (fchown(fileno(tmp), file_owner, -1) < OK) {

```

1.542 cxf-rt-bindings-corba 2.7.4

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1.544 tomcat-annotations-api 9.0.37

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1.545 util-linux 2.19.0

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*/

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01

2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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WEV @@ WEV[B "1

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Version 2.1, February 1999

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```

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```

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chapg

Chris Reuter

Colin Watson

Dimitar Dobrev

edink

Gilles Espinasse

guenter

Kornel Lesiski

kshepherd

lhecking

Marcin Wojdyr

mattias

Mike Frysinger

mloskot

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3.0-dev</div></div><div class=MEntry><div class=MGroup>Image Formats<div class=MGroupContent id=MGroupContent1><div class=MEntry><div class=MFile>BMP IO</div></div><div class=MEntry><div class=MFile>GD IO</div></div><div class=MEntry><div class=MFile>GD2 IO</div></div><div class=MEntry><div class=MFile>GIF Input</div></div><div class=MEntry><div class=MFile>GIF Output</div></div><div class=MEntry><div class=MFile>JPEG IO</div></div><div class=MEntry><div class=MFile>PNG IO</div></div><div class=MEntry><div class=MFile>TGA Input</div></div><div class=MEntry><div class=MFile>TIFF IO</div></div><div class=MEntry><div class=MFile>WBMP IO</div></div><div class=MEntry><div class=MFile>WebP IO</div></div><div class=MEntry><div class=MFile>XBM IO</div></div><div class=MEntry><div class=MFile>XPM Input</div></div></div></div><div class=MEntry><div class=MFile>Color Quantization</div></div><div class=MEntry><div class=MFile>Cropping</div></div><div class=MEntry><div class=MFile>FreeType font rendering</div></div><div class=MEntry><div class=MFile>gd.c</div></div><div class=MEntry><div class=MFile>gd.h</div></div><div class=MEntry><div class=MFile>gd_filename.c</div></div><div class=MEntry><div class=MFile>gd_interpolation.c</div></div><div class=MEntry><div class=MFile>gd_io.h</div></div><div class=MEntry><div class=MFile>gd_io_dp.c</div></div><div class=MEntry><div class=MFile>gd_ss.c</div></div><div class=MEntry><div class=MFile>gd_version.c</div></div><div class=MEntry><div class=MFile>gdColorMapLookup</div></div><div class=MEntry><div class=MFile>gdFree</div></div><div class=MEntry><div class=MFile>gdfx.c</div></div><div class=MEntry><div class=MFile>gdImageColorMatch</div></div><div class=MEntry><div class=MFile>gdImageNeuQuant</div></div><div class=MEntry><div class=MFile>gdNewFileCtx</div></div><div class=MEntry><div class=MFile>gdNewSSCtx</div></div><div class=MEntry><div class=MFile>Image Filters</div></div><div class=MEntry><div class=MFile id=MSelected>License</div></div><div class=MEntry><div class=MFile>Matrix</div></div><div class=MEntry><div class=MFile>Transformations</div></div><div class=MEntry><div class=MGroup>Built-in Fonts<div class=MGroupContent id=MGroupContent2><div class=MEntry><div class=MFile>Giant Font</div></div><div class=MEntry><div class=MFile>Large Font</div></div><div class=MEntry><div class=MFile>Medium Bold Font</div></div><div class=MEntry><div class=MFile>Small


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Font</a></div></div><div class=MEntry><div class=MFile><a href="gdfontt-c.html">Tiny
Font</a></div></div></div></div></div><div class=MEntry><div class=MGroup><a
href="javascript:ToggleMenu('MGroupContent3')">Index</a><div class=MGroupContent
id=MGroupContent3><div class=MEntry><div class=MIndex><a
href="../index/Constants.html">Constants</a></div></div><div class=MEntry><div class=MIndex><a
href="../index/General.html">Everything</a></div></div><div class=MEntry><div class=MIndex><a
href="../index/Files.html">Files</a></div></div><div class=MEntry><div class=MIndex><a
href="../index/Functions.html">Functions</a></div></div><div class=MEntry><div class=MIndex><a
href="../index/Macros.html">Macros</a></div></div><div class=MEntry><div class=MIndex><a
href="../index/Types.html">Types</a></div></div></div></div></div><script type="text/javascript"><!--
var searchPanel = new SearchPanel("searchPanel", "HTML", "../search");
--></script><div id=MSearchPanel class=MSearchPanelInactive><input type=text id=MSearchField value=Search
onFocus="searchPanel.OnSearchFieldFocus(true)" onBlur="searchPanel.OnSearchFieldFocus(false)"
onKeyUp="searchPanel.OnSearchFieldChange()"><select id=MSearchType
onFocus="searchPanel.OnSearchTypeFocus(true)" onBlur="searchPanel.OnSearchTypeFocus(false)"
onChange="searchPanel.OnSearchTypeChange()"><option id=MSearchEverything selected
value="General">Everything</option><option value="Constants">Constants</option><option
value="Files">Files</option><option value="Functions">Functions</option><option
value="Macros">Macros</option><option value="Types">Types</option></select></div><script
language=JavaScript><!--
HideAllBut([], 4);// --></script></div><!--Menu-->

```

```

<!--START_ND_TOOLTIPS-->
<!--END_ND_TOOLTIPS-->

```

```

<div id=MSearchResultsWindow><iframe src="" frameborder=0 name=MSearchResults
id=MSearchResults></iframe><a href="javascript:searchPanel.CloseResultsWindow()"
id=MSearchResultsWindowClose>Close</a></div>

```

```

<script language=JavaScript><!--
if (browserType) {if (browserVer) { document.write("</div>"); } document.write("</div>");} // --
></script></body></html>

```

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Version 3, 19 November 2007

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1.549 tiles-request-api 1.0.7

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1.550 dc 1.3

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```

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```
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```

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
```

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Tests/Example_SwiftTests.swift
```

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
```

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib
```

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```
<string>The DCPathButton use the MIT license</string>
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
```

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```
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```

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```

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarItemViewController.h
```

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```
Pod::Spec.new do |s|
```

```
  s.name      = "DCPathButton"
```

```
  s.version   = "2.1.1"
```

```
  s.summary   = " A beautiful button copy from Path® "
```

```
s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®.
Since Path® 4.0, it return to use a tab bar instead of a side bar,
and also change the menu button. So I try to implement it and then
the DCPathButton born :)
```

```
DESC
```

```
s.homepage = "https://github.com/Tangdixi/DCPathButton"
```

```
s.license = {
:type => 'MIT',
:text => 'The DCPathButton use the MIT license'
}
```

```
s.author = { "Tangdixi" => "Tangdixi@gmail.com" }
```

```
s.platform = :ios, '7.0'
```

```
s.source = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}
```

```
s.source_files = 'DCPathButton/Classes/*.{h,m}'
```

```
s.resources = ["DCPathButton/Sounds/*"]
```

```
s.frameworks = 'QuartzCore','AudioToolbox'
```

```
s.requires_arc = true
```

```
end
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
```

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This application makes use of the following third party libraries:

DCPathButton

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```
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```

DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.markdown

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m

* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h

* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m

* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h

* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h

* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h

* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h

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1.551 tomcat 7.0.100

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1.555 webservices-tools 2.1-b16

1.556 httpcomponents-core 4.1.2

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1.561 sqlite 3.6.20

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**
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** shared libraries that want to be imported as extensions into
** an SQLite instance. Shared libraries that intend to be loaded
** as extensions by SQLite should #include this file instead of
** sqlite3.h.
**
** @(#) $Id: sqlite3ext.h,v 1.25 2008/10/12 00:27:54 shane Exp $
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1.562 gunit 3.2

1.563 jackson 1.9.2

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1.564 zlib 1.0.4

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1.565 elfutils 0.158-3.2.el6

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1.571 cxf-tools-wsdlto-frontend-javascript

2.7.4

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1.572 c-ares 1.7.5

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1.573 d-bus 1.2.24-11.el6_10

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```

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1.574 java-csv 2.0

1.574.1 Available under license :

```
/*
 * Java CSV is a stream based library for reading and writing
 * CSV and other delimited data.
 *
 * Copyright (C) Bruce Dunwiddie bruce@csvreader.com
```

```
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*/
package com.csvreader;
```

```
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.io.PrintWriter;
import java.io.Writer;
import java.nio.charset.Charset;

/**
 * A stream based writer for writing delimited text data to a file or a stream.
 */
public class CsvWriter {
    private PrintWriter outputStream = null;

    private String fileName = null;

    private boolean firstColumn = true;

    private boolean useCustomRecordDelimiter = false;

    private Charset charset = null;

    // this holds all the values for switches that the user is allowed to set
    private UserSettings userSettings = new UserSettings();

    private boolean initialized = false;

    private boolean closed = false;

    /**
     * Double up the text qualifier to represent an occurrence of the text
```

```

* qualifier.
*/
public static final int ESCAPE_MODE_DOUBLED = 1;

/**
 * Use a backslash character before the text qualifier to represent an
 * occurrence of the text qualifier.
 */
public static final int ESCAPE_MODE_BACKSLASH = 2;

/**
 * Creates a {@link com.csvreader.CsvWriter CsvWriter} object using a file
 * as the data destination.
 *
 * @param fileName
 *     The path to the file to output the data.
 * @param delimiter
 *     The character to use as the column delimiter.
 * @param charset
 *     The {@link java.nio.charset.Charset Charset} to use while
 *     writing the data.
 */
public CsvWriter(String fileName, char delimiter, Charset charset) {
    if (fileName == null) {
        throw new IllegalArgumentException("Parameter fileName can not be null.");
    }

    if (charset == null) {
        throw new IllegalArgumentException("Parameter charset can not be null.");
    }

    this.fileName = fileName;
    userSettings.Delimiter = delimiter;
    this.charset = charset;
}

/**
 * Creates a {@link com.csvreader.CsvWriter CsvWriter} object using a file
 * as the data destination.&nbsp;Uses a comma as the column delimiter and
 * ISO-8859-1 as the {@link java.nio.charset.Charset Charset}.
 *
 * @param fileName
 *     The path to the file to output the data.
 */
public CsvWriter(String fileName) {
    this(fileName, Letters.COMMA, Charset.forName("ISO-8859-1"));
}

```



```

/**
 * Creates a {@link com.csvreader.CsvWriter CsvWriter} object using a Writer
 * to write data to.
 *
 * @param outputStream
 *     The stream to write the column delimited data to.
 * @param delimiter
 *     The character to use as the column delimiter.
 */
public CsvWriter(Writer outputStream, char delimiter) {
    if (outputStream == null) {
        throw new IllegalArgumentException("Parameter outputStream can not be null.");
    }

    this.outputStream = new PrintWriter(outputStream);
    userSettings.Delimiter = delimiter;
    initialized = true;
}

/**
 * Creates a {@link com.csvreader.CsvWriter CsvWriter} object using an
 * OutputStream to write data to.
 *
 * @param outputStream
 *     The stream to write the column delimited data to.
 * @param delimiter
 *     The character to use as the column delimiter.
 * @param charset
 *     The {@link java.nio.charset.Charset Charset} to use while
 *     writing the data.
 */
public CsvWriter(OutputStream outputStream, char delimiter, Charset charset) {
    this(new OutputStreamWriter(outputStream, charset), delimiter);
}

/**
 * Gets the character being used as the column delimiter.
 *
 * @return The character being used as the column delimiter.
 */
public char getDelimiter() {
    return userSettings.Delimiter;
}

/**
 * Sets the character to use as the column delimiter.
 *
 * @param delimiter

```

```

*      The character to use as the column delimiter.
*/
public void setDelimiter(char delimiter) {
    userSettings.Delimiter = delimiter;
}

public char getRecordDelimiter() {
    return userSettings.RecordDelimiter;
}

/**
 * Sets the character to use as the record delimiter.
 *
 * @param recordDelimiter
 *      The character to use as the record delimiter. Default is
 *      combination of standard end of line characters for Windows,
 *      Unix, or Mac.
 */
public void setRecordDelimiter(char recordDelimiter) {
    useCustomRecordDelimiter = true;
    userSettings.RecordDelimiter = recordDelimiter;
}

/**
 * Gets the character to use as a text qualifier in the data.
 *
 * @return The character to use as a text qualifier in the data.
 */
public char getTextQualifier() {
    return userSettings.TextQualifier;
}

/**
 * Sets the character to use as a text qualifier in the data.
 *
 * @param textQualifier
 *      The character to use as a text qualifier in the data.
 */
public void setTextQualifier(char textQualifier) {
    userSettings.TextQualifier = textQualifier;
}

/**
 * Whether text qualifiers will be used while writing data or not.
 *
 * @return Whether text qualifiers will be used while writing data or not.
 */
public boolean getUseTextQualifier() {

```

```

return userSettings.UseTextQualifier;
}

/**
 * Sets whether text qualifiers will be used while writing data or not.
 *
 * @param useTextQualifier
 *       Whether to use a text qualifier while writing data or not.
 */
public void setUseTextQualifier(boolean useTextQualifier) {
    userSettings.UseTextQualifier = useTextQualifier;
}

public int getEscapeMode() {
    return userSettings.EscapeMode;
}

public void setEscapeMode(int escapeMode) {
    userSettings.EscapeMode = escapeMode;
}

public void setComment(char comment) {
    userSettings.Comment = comment;
}

public char getComment() {
    return userSettings.Comment;
}

/**
 * Whether fields will be surrounded by the text qualifier even if the
 * qualifier is not necessarily needed to escape this field.
 *
 * @return Whether fields will be forced to be qualified or not.
 */
public boolean getForceQualifier() {
    return userSettings.ForceQualifier;
}

/**
 * Use this to force all fields to be surrounded by the text qualifier even
 * if the qualifier is not necessarily needed to escape this field. Default
 * is false.
 *
 * @param forceQualifier
 *       Whether to force the fields to be qualified or not.
 */
public void setForceQualifier(boolean forceQualifier) {

```

```

userSettings.ForceQualifier = forceQualifier;
}

/**
 * Writes another column of data to this record.
 *
 * @param content
 *     The data for the new column.
 * @param preserveSpaces
 *     Whether to preserve leading and trailing whitespace in this
 *     column of data.
 * @exception IOException
 *     Thrown if an error occurs while writing data to the
 *     destination stream.
 */
public void write(String content, boolean preserveSpaces)
    throws IOException {
    checkClosed();

    checkInit();

    if (content == null) {
        content = "";
    }

    if (!firstColumn) {
        outputStream.write(userSettings.Delimiter);
    }

    boolean textQualify = userSettings.ForceQualifier;

    if (!preserveSpaces && content.length() > 0) {
        content = content.trim();
    }

    if (!textQualify
        && userSettings.UseTextQualifier
        && (content.indexOf(userSettings.TextQualifier) > -1
            || content.indexOf(userSettings.Delimiter) > -1
            || (!useCustomRecordDelimiter && (content
                .indexOf(Letters.LF) > -1 || content
                .indexOf(Letters.CR) > -1))
            || (useCustomRecordDelimiter && content
                .indexOf(userSettings.RecordDelimiter) > -1)
            || (firstColumn && content.length() > 0 && content
                .charAt(0) == userSettings.Comment) ||
        // check for empty first column, which if on its own line must
        // be qualified or the line will be skipped

```

```

    (firstColumn && content.length() == 0))) {
    textQualify = true;
}

if (userSettings.UseTextQualifier && !textQualify
    && content.length() > 0 && preserveSpaces) {
    char firstLetter = content.charAt(0);

    if (firstLetter == Letters.SPACE || firstLetter == Letters.TAB) {
        textQualify = true;
    }

    if (!textQualify && content.length() > 1) {
        char lastLetter = content.charAt(content.length() - 1);

        if (lastLetter == Letters.SPACE || lastLetter == Letters.TAB) {
            textQualify = true;
        }
    }
}

if (textQualify) {
    outputStream.write(userSettings.TextQualifier);

    if (userSettings.EscapeMode == ESCAPE_MODE_BACKSLASH) {
        content = replace(content, "" + Letters.BACKSLASH, ""
            + Letters.BACKSLASH + Letters.BACKSLASH);
        content = replace(content, "" + userSettings.TextQualifier, ""
            + Letters.BACKSLASH + userSettings.TextQualifier);
    } else {
        content = replace(content, "" + userSettings.TextQualifier, ""
            + userSettings.TextQualifier
            + userSettings.TextQualifier);
    }
} else if (userSettings.EscapeMode == ESCAPE_MODE_BACKSLASH) {
    content = replace(content, "" + Letters.BACKSLASH, ""
        + Letters.BACKSLASH + Letters.BACKSLASH);
    content = replace(content, "" + userSettings.Delimiter, ""
        + Letters.BACKSLASH + userSettings.Delimiter);

    if (useCustomRecordDelimiter) {
        content = replace(content, "" + userSettings.RecordDelimiter,
            "" + Letters.BACKSLASH + userSettings.RecordDelimiter);
    } else {
        content = replace(content, "" + Letters.CR, ""
            + Letters.BACKSLASH + Letters.CR);
        content = replace(content, "" + Letters.LF, ""
            + Letters.BACKSLASH + Letters.LF);
    }
}

```

```

    }

    if (firstColumn && content.length() > 0
        && content.charAt(0) == userSettings.Comment) {
        if (content.length() > 1) {
            content = "" + Letters.BACKSLASH + userSettings.Comment
                + content.substring(1);
        } else {
            content = "" + Letters.BACKSLASH + userSettings.Comment;
        }
    }
}

outputStream.write(content);

if (textQualify) {
    outputStream.write(userSettings.TextQualifier);
}

firstColumn = false;
}

/**
 * Writes another column of data to this record.&nbsp;Does not preserve
 * leading and trailing whitespace in this column of data.
 *
 * @param content
 *     The data for the new column.
 * @exception IOException
 *     Thrown if an error occurs while writing data to the
 *     destination stream.
 */
public void write(String content) throws IOException {
    write(content, false);
}

public void writeComment(String commentText) throws IOException {
    checkClosed();

    checkInit();

    outputStream.write(userSettings.Comment);

    outputStream.write(commentText);

    if (useCustomRecordDelimiter) {
        outputStream.write(userSettings.RecordDelimiter);
    } else {

```

```

    outputStream.println();
}

firstColumn = true;
}

/**
 * Writes a new record using the passed in array of values.
 *
 * @param values
 *     Values to be written.
 *
 * @param preserveSpaces
 *     Whether to preserve leading and trailing spaces in columns
 *     while writing out to the record or not.
 *
 * @throws IOException
 *     Thrown if an error occurs while writing data to the
 *     destination stream.
 */
public void writeRecord(String[] values, boolean preserveSpaces)
    throws IOException {
    if (values != null && values.length > 0) {
        for (int i = 0; i < values.length; i++) {
            write(values[i], preserveSpaces);
        }
    }

    endRecord();
}

/**
 * Writes a new record using the passed in array of values.
 *
 * @param values
 *     Values to be written.
 *
 * @throws IOException
 *     Thrown if an error occurs while writing data to the
 *     destination stream.
 */
public void writeRecord(String[] values) throws IOException {
    writeRecord(values, false);
}

/**
 * Ends the current record by sending the record delimiter.
 *

```

```

* @exception IOException
*     Thrown if an error occurs while writing data to the
*     destination stream.
*/
public void endRecord() throws IOException {
    checkClosed();

    checkInit();

    if (useCustomRecordDelimiter) {
        outputStream.write(userSettings.RecordDelimiter);
    } else {
        outputStream.println();
    }

    firstColumn = true;
}

/**
 *
 */
private void checkInit() throws IOException {
    if (!initialized) {
        if (fileName != null) {
            outputStream = new PrintWriter(new OutputStreamWriter(
                new FileOutputStream(fileName), charset));
        }

        initialized = true;
    }
}

/**
 * Clears all buffers for the current writer and causes any buffered data to
 * be written to the underlying device.
 */
public void flush() {
    outputStream.flush();
}

/**
 * Closes and releases all related resources.
 */
public void close() {
    if (!closed) {
        close(true);

        closed = true;
    }
}

```



```

    }
}

/**
 *
 */
private void close(boolean closing) {
    if (!closed) {
        if (closing) {
            charset = null;
        }

        try {
            if (initialized) {
                outputStream.close();
            }
        } catch (Exception e) {
            // just eat the exception
        }

        outputStream = null;

        closed = true;
    }
}

/**
 *
 */
private void checkClosed() throws IOException {
    if (closed) {
        throw new IOException(
            "This instance of the CsvWriter class has already been closed.");
    }
}

/**
 *
 */
protected void finalize() {
    close(false);
}

private class Letters {
    public static final char LF = '\n';

    public static final char CR = '\r';
}

```

```

public static final char QUOTE = '"';

public static final char COMMA = ',';

public static final char SPACE = ' ';

public static final char TAB = '\t';

public static final char POUND = '#';

public static final char BACKSLASH = '\\';

public static final char NULL = '\0';
}

private class UserSettings {
    // having these as publicly accessible members will prevent
    // the overhead of the method call that exists on properties
    public char TextQualifier;

    public boolean UseTextQualifier;

    public char Delimiter;

    public char RecordDelimiter;

    public char Comment;

    public int EscapeMode;

    public boolean ForceQualifier;

    public UserSettings() {
        TextQualifier = Letters.QUOTE;
        UseTextQualifier = true;
        Delimiter = Letters.COMMA;
        RecordDelimiter = Letters.NULL;
        Comment = Letters.POUND;
        EscapeMode = ESCAPE_MODE_DOUBLED;
        ForceQualifier = false;
    }
}

public static String replace(String original, String pattern, String replace) {
    final int len = pattern.length();
    int found = original.indexOf(pattern);

    if (found > -1) {

```

```

StringBuffer sb = new StringBuffer();
int start = 0;

while (found != -1) {
    sb.append(original.substring(start, found));
    sb.append(replace);
    start = found + len;
    found = original.indexOf(pattern, start);
}

sb.append(original.substring(start));

return sb.toString();
} else {
    return original;
}
}
}
}

```

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Version 2.1, February 1999

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1.576 libxi 1.7.4-1.el6

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/*

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

* \$Revision: 291181 \$

* \$Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) \$

*

```

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```

```
package org.apache.commons.httpclient;
```

```
import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Closes an underlying stream as soon as the end of the stream is reached, and
 * notifies a client when it has done so.
 *
 * @author Ortwin Glueck
 * @author Eric Johnson
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 *
 * @since 2.0
 */

```

```
class AutoCloseInputStream extends FilterInputStream {
```

```

/**
 * True if this stream is open. Assume that the underlying stream
 * is open until we get an EOF indication.
 */
private boolean streamOpen = true;

```



```

/** True if the stream closed itself. */
private boolean selfClosed = false;

/**
 * The watcher is notified when the contents of the stream have
 * been exhausted
 */
private ResponseConsumedWatcher watcher = null;

/**
 * Create a new auto closing stream for the provided connection
 *
 * @param in the input stream to read from
 * @param watcher To be notified when the contents of the stream have been
 * consumed.
 */
public AutoCloseInputStream(
    final InputStream in, final ResponseConsumedWatcher watcher) {
    super(in);
    this.watcher = watcher;
}

/**
 * Reads the next byte of data from the input stream.
 *
 * @throws IOException when there is an error reading
 * @return the character read, or -1 for EOF
 */
public int read() throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }

    return l;
}

/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading

```

```

*/
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }

    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * @throws IOException If an IO problem occurs.
 */
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}

/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */

```

```

private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;

        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}
}

```

1.578 jaxb-api 2.1

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1.581 commons-digester 2.1

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1.582 commons-dbcp 1.2.1

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 */
```

Found in path(s):

```
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/cpdsadapter/DriverAdapterCPDS.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/datasources/SharedPoolDataSourceFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/ConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/DelegatingCallableStatement.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/BasicDataSourceFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/DelegatingPreparedStatement.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/cpdsadapter/PoolableConnectionImpl.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/DriverManagerConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/jocl/ConstructorUtil.java
```


* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/AbandonedConfig.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/CPDSConnectionFactory.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/PoolingConnection.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/AbandonedObjectPool.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/DelegatingResultSet.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/BasicDataSource.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/DriverConnectionFactory.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/jocl/JOCLContentHandler.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/PoolableConnection.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/PoolingDataSource.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/KeyedCPDSConnectionFactory.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/DelegatingConnection.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/PoolablePreparedStatement.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/DbcException.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/PoolableConnectionFactory.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/UserPassKey.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/PoolKey.java

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* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/AbandonedTrace.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java

* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/DelegatingStatement.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/PoolingDriver.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbc-1-2-1-sources-jar/org/apache/commons/dbcp/SQLNestedException.java

1.583 libxtst 1.2.2-2.1.el6

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1.591 eclipse-ui 3.6.1.M20100825 0800

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1.592 tiles-el 3.0.8

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1.593 xml-parser 1.0.0

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 *
 */

/**
 * An exception class that is thrown as wrapped exception on instantiation of
 * {@link ResourceResolver} and {@link XmlParser} if some exception occurs
 *
 * @author noctarius
 * @since 0.0.1
 */
```

1.594 commons-pool 1.2

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Found in path(s):

* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/GenericObjectPoolFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/StackObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/StackKeyedObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/StackObjectPoolFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/GenericKeyedObjectPoolFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/BaseObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/SoftReferenceObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/GenericObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/impl/StackKeyedObjectPoolFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/ObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/ObjectPoolFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/KeyedObjectPoolFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/PoolableObjectFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/KeyedPoolableObjectFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/BaseKeyedPoolableObjectFactory.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/KeyedObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-

jar/org/apache/commons/pool/impl/GenericKeyedObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/BaseKeyedObjectPool.java
* /opt/cola/permits/1001452897_1646171661.38/0/commons-pool-1-2-sources-
jar/org/apache/commons/pool/BasePoolableObjectFactory.java

1.595 cxf-tools-wadlto-jaxrs 2.7.4

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java

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/**

* Abstraction for handling large binary fields and large text fields in

* specific databases, no matter if represented as simple types or Large Objects.

* Its main purpose is to isolate Oracle's peculiar handling of LOBs in

* {@link OracleLobHandler}; most other databases should be able to work

* with the provided {@link DefaultLobHandler}.

*

* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for

* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.

* LobCreators are typically instantiated for each statement execution or for

* each transaction; they are not thread-safe because they might track

* allocated database resources in order to free them after execution.

*

* <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},

* which by default delegates to JDBC's direct accessor methods, avoiding the

* <code>java.sql.Blob</code> and <code>java.sql.Clob</code> API completely.

* {@link DefaultLobHandler} can also be configured to access LOBs using

* <code>PreparedStatement.setBlob/setClob</code> (e.g. for PostgreSQL), through

* setting the {@link DefaultLobHandler#setWrapAsLob "wrapAsLob"} property.

*

* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own

* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for

* PreparedStatement's corresponding setter methods. Therefore, you need to use

* {@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types

* of access. The Oracle 10g JDBC driver should basically work with

* {@link DefaultLobHandler} as well, with some limitations in terms of LOB sizes.

*

* <p>Of course, you need to declare different field types for each database.

* In Oracle, any binary content needs to go into a BLOB, and all character content

* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a

* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete

* portability, use a LobHandler for fields that might typically require LOBs on

* some database because of the field size (take Oracle's numbers as a guideline).

*

* <p>Summarizing the recommended options (for actual LOB fields):</p>

*

* JDBC 4.0 driver: {@link DefaultLobHandler} with <code>streamAsLob=true</code>.

* PostgreSQL: {@link DefaultLobHandler} with <code>wrapAsLob=true</code>.

* Oracle 9i/10g: {@link OracleLobHandler} with a connection-pool-specific

* {@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor}.

* For all other database drivers (and for non-LOB fields that might potentially

* turn into LOBs on some databases): a plain {@link DefaultLobHandler}.

*

*

* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/lob/LobHandler.java

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- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/object/SqlOperation.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/JdbcAccessor.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/RowMapper.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/SqlInOutParameter.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/ArgTypePreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/ArgPreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcDaoSupport.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/SqlReturnTypes.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/nativejdbc/C3PONativeJdbcExtractor.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/UncategorizedSQLException.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/PreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
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- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/lookup/IndiDataSourceLookup.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcOperations.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-

jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/simple/ParameterizedBeanPropertyRowMapper.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
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jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/ParameterDisposer.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
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```
/**  
*  
* The classes in this package make JDBC easier to use and  
* reduce the likelihood of common errors. In particular, they:  
* <ul>  
* <li>Simplify error handling, avoiding the need for try/catch/final  
* blocks in application code.  
* <li>Present exceptions to application code in a generic hierarchy of
```

- * unchecked exceptions, enabling applications to catch data access
- * exceptions without being dependent on JDBC, and to ignore fatal
- * exceptions there is no value in catching.
- * Allow the implementation of error handling to be modified
- * to target different RDBMSes without introducing proprietary
- * dependencies into application code.

*

<p>This package and related packages are discussed in Chapter 9 of

* Expert One-On-One J2EE Design and Development

* by Rod Johnson (Wrox, 2002).

*

*/

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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/package-info.java

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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never <code>null</code>)
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/ParameterMapper.java

```

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- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/nativejdbc/Jdbc4NativeJdbcExtractor.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/nativejdbc/OracleJdbc4NativeJdbcExtractor.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
- * /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-

jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
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jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java

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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/SQLWarningException.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/lob/JtaLobCreatorSynchronization.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-


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jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/lob/LobCreatorUtils.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
```

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```
*/
```

```
/**
```

```
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
```

```
* Will not need to do anything if using PreparedStatement's standard methods,
```

```
* but might be necessary to free database resources if using proprietary means.
```

```
* NOTE: Needs to be invoked after the involved PreparedStatements have
```

```
* been executed or the affected O/R mapping sessions have been flushed.
```

```
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
```

```
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/lob/LobCreator.java
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 */
/**
 * { @link LobHandler } implementation for Oracle databases. Uses proprietary API
 * to create oracle.sql.BLOB and oracle.sql.CLOB
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * <p>While most databases are able to work with { @link DefaultLobHandler },
 * Oracle just accepts Blob/Clob instances created via its own proprietary
 * BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need
 * to use a strategy like this LobHandler implementation.
 *
 * <p>Needs to work on a native JDBC Connection, to be able to cast it to
 * oracle.jdbc.OracleConnection. If you pass in Connections from a
 * connection pool (the usual case in a J2EE environment), you need to set an
 * appropriate { @link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor }
 * to allow for automatical retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 *
 * <p>Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
 * this as eager-initializing singleton if you do not want to depend on the Oracle
 * JAR being in the class path: use "lazy-init=true" to avoid this issue.
 *
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 04.12.2003
 * @see #setNativeJdbcExtractor
```

* @see oracle.sql.BLOB
* @see oracle.sql.CLOB
*/

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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/SqlProvider.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java

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*/
/**
* Strategy interface for translating between { @link SQLException SQLExceptions }
* and Spring's data access strategy-agnostic { @link DataAccessException }
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* { @link java.sql.SQLException#getSQLState() SQLState } codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-

jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/nativejdbc/JBossNativeJdbcExtractor.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-
jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
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jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java  
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-  
jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java  
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-  
jar/org/springframework/jdbc/support/incrementer/DB2MainFrameSequenceMax ValueIncrementer.java  
* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-  
jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java

* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java

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* /opt/ws_local/PERMITS_SQL/1068640122_1594447822.69/0/spring-jdbc-3-1-4-release-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java

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1.598 xerces-c 3.1

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1.600 sudo 1.8.6

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/fmt/LocaleSupport.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-jar/javax/servlet/jsp/jstl/sql/ResultImpl.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/sql/SQLExecutionTag.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/tlv/ScriptFreeTLV.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/core/LoopTagSupport.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/core/ConditionalTagSupport.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-jar/javax/servlet/jsp/jstl/sql/Result.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-jar/javax/servlet/jsp/jstl/core/Config.java
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* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/sql/ResultSupport.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/fmt/LocalizationContext.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/tlv/PermittedTaglibsTLV.java
* /opt/cola/permits/1099773557_1602553772.98/0/jstl-1-1-2-sources-1-
jar/javax/servlet/jsp/jstl/core/LoopTagStatus.java
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1.603 openssl 0.9.8e

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1.604 spring-tx 3.1.4.RELEASE

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* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-

jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
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jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java

* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/SmartTransactionObject.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/dao/DuplicateKeyException.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/dao/support/DataAccessUtils.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/annotation/Isolation.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/TransactionTemplate.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/jta/JtaTransactionObject.java
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jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
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jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
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jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
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jar/org/springframework/transaction/support/TransactionOperations.java
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jar/org/springframework/jca/context/BootstrapContextAware.java
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* /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
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- * /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
- * /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
- * /opt/cola/permits/1111930479_1607015096.08/0/spring-tx-3-1-4-release-sources-jar/org/springframework/transaction/jta/JtaTransactionManager.java
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1.606 jackson 1.9.9

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```

Found in path(s):

```
* /opt/cola/permits/1078139599_1604998177.62/0/jackson-core-asl-1-9-9-sources-  
jar/org/codehaus/jackson/JsonParser.java  
* /opt/cola/permits/1078139599_1604998177.62/0/jackson-core-asl-1-9-9-sources-  
jar/org/codehaus/jackson/util/ByteArrayBuilder.java  
* /opt/cola/permits/1078139599_1604998177.62/0/jackson-core-asl-1-9-9-sources-
```

jar/org/codehaus/jackson/JsonGenerator.java
* /opt/cola/permits/1078139599_1604998177.62/0/jackson-core-asl-1-9-9-sources-
jar/org/codehaus/jackson/Base64Variant.java
* /opt/cola/permits/1078139599_1604998177.62/0/jackson-core-asl-1-9-9-sources-
jar/org/codehaus/jackson/JsonFactory.java
* /opt/cola/permits/1078139599_1604998177.62/0/jackson-core-asl-1-9-9-sources-
jar/org/codehaus/jackson/Base64Variants.java
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1.607 commons-net 2.0

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1.608 cxf-xjc-boolean 2.6.1

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9.20090921 gitdf3cb4.2.el6

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- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/PropertiesHolder.java
- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/jdk/JDK11Hooks.java
- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/DiscoveryException.java
- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/DiscoverSingleton.java
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- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/DiscoverClass.java
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- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/EnvironmentCache.java
- * /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/tools/ResourceUtils.java
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* \$Header: /home/cvs/jakarta-commons/logging/src/java/org/apache/commons/logging/impl/SimpleLog.java,v 1.4 2002/06/15 20:54:48 craigmcc Exp \$

* \$Revision: 1.4 \$

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 jar/org/apache/commons/discovery/log/DiscoveryLogFactory.java
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* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/DiscoverNamesInSystemProperties.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/ResourceClassIterator.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/DiscoverNamesInAlternateManagedProperties.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/ResourceNameDiscoverImpl.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/tools/Service.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/ResourceNameDiscover.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/DiscoverNamesInManagedProperties.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/DiscoverMappedNames.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/ant/ServiceDiscoveryTask.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/ClassLoaders.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/ResourceClassDiscover.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/classes/ResourceClassDiscoverImpl.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/ResourceNameIterator.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/classes/DiscoverClasses.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/NameDiscoverers.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/DiscoverResources.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/ResourceClass.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-
jar/org/apache/commons/discovery/resource/names/DiscoverNamesInFile.java

* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/ResourceDiscoverImpl.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ResourceIterator.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/DiscoverServiceNames.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/ResourceDiscover.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/Resource.java
* /opt/cola/permits/1000765363_1646171568.65/0/commons-discovery-0-2-sources-jar/org/apache/commons/discovery/resource/names/DiscoverNamesInDictionary.java
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jar/org/apache/commons/discovery/tools/ManagedProperties.java

1.611 commons-io 1.3.2

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1.612 tomcat-util-scan 9.0.37

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1.614 cxf-xjc-dv 2.6.1

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1.615 jaxen 1.1.2-3

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<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <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) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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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.

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

That's all there is to it!

```
<HTML>  
<!-- SECTION: Getting Started -->  
<HEAD>  
<TITLE>Software License Agreement</TITLE>  
<LINK REL="STYLESHEET" TYPE="text/css" HREF=" ../cups-printable.css">  
</HEAD>  
<BODY>
```

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1 Infinite Loop

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WWW: http://www.cups.org/

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<OL TYPE="a">

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<P>Version 2, June 1991

<PRE>

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<OL START="0">

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<OL TYPE="a">

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<OL TYPE="a">

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; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

<P>The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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<OL START="11">

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<P>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.

<PRE>

```
<VAR>one line to give the program's name and an idea of what it does.</VAR>  
Copyright (C) <VAR>yyyy</VAR> <VAR>name of author</VAR>
```

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</PRE>

<P>Also add information on how to contact you by electronic and paper mail.

<P>If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

<PRE>

```
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>  
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.
```

</PRE>

<P>The hypothetical commands <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP> should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP>; they could even be mouse-clicks or menu items--whatever

suits your program.

<P>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:

<PRE>

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.

<VAR>signature of Ty Coon</VAR>, 1 April 1989

Ty Coon, President of Vice

</PRE>

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<P>Version 2, June 1991

<PRE>

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numbered 2 because it goes with version 2 of the ordinary GPL.]

</PRE>

<H3>Preamble</H3>

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<P>Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

<P>Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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<P>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.

<P>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.

<P>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.

<P>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.

<P>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.

<P>Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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<P>0.

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<P>A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

<P>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".)

<P>"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.

<P>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 writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

<P>1.

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

<P>You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

<P>2.

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<OL TYPE="a">

The modified work must itself be a software library.

<P>

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

<P>

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

<P>

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.

<P>(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.)

<P>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.

<P>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.

<P>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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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

<P>Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

the Library into a program that is not a library.

<P>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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<OL TYPE="a">

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<P>

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<P>

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<P>

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<OL TYPE="a">

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<PRE>

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```

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<P>That's all there is to it!
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1.617 axiom-api 1.2.12

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
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MODIFIED_BY define.

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
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)

Address to send checks to:

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:
```

```
" Vim syntax file  
" Language: Software Distributor product specification file  
" (POSIX 1387.2-1995).  
" Maintainer: Rex Barzee <rex_barzee@hp.com>  
" Last change: 25 Apr 2001
```

```
if version < 600
```

```
" Remove any old syntax stuff hanging around  
syn clear  
elseif exists("b:current_syntax")  
  finish  
endif
```

```
" Product specification files are case sensitive  
syn case match
```

```
syn keyword psfObject bundle category control_file depot distribution  
syn keyword psfObject end file fileset host installed_software media  
syn keyword psfObject product root subproduct vendor
```

```
syn match psfUnquotString +[^\# ]+ contained  
syn region psfQuotString start="+\" skip=+\\\"+ end="+\" contained
```

```
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained  
syn match psfAttAbbrev ",\<(\(fa\|fr\|[aclqrv])\)\(\<|\>|\<=>|\>=|\<==>|\>=)\[^\,]+\" contained  
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)\)*\)*" contained
```

```
syn match psfNumber "\<d\+\>" contained  
syn match psfFloat "\<d\+\>(\.\<d\+\>)*" contained
```

syn match psfLongDate "<d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d>" contained

syn keyword psfState available configured corrupt installed transient contained

syn keyword psfPState applied committed superseded contained

syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:

" architecture category_tag control_directory copyright

" create_date description directory file_permissions install_source

" install_type location machine_type mod_date number os_name os_release

" os_version pose_as_os_name pose_as_os_release readme revision

" share_link title vendor_tag

syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[\^#]\+\s\+[\^#]~rs=e-1

contains=psfUnquotString,psfComment end=~\$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[\^#]\+\s\+"~rs=e-1

contains=psfQuotString,psfComment skip=~\|~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some

" of the attributes.

syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="\$" keepend

oneline

syn region psfAttSpec matchgroup=psfAttrib

start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exquisites\|prerequisites\|software_spec\|

supersedes\|superseded_by\)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="\$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="\$"

keepend

syn region psfAttNumber matchgroup=psfAttrib

start="^\s*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)\s\+"

contains=psfNumber,psfComment end="\$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^\s*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)\s\+"

contains=psfNumber,psfComment end="\$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*\(data_model_revision\|layout_version\)\s\+"

contains=psfFloat,psfComment end="\$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment

end="\$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*\(state\)\s\+" contains=psfState,psfComment end="\$"

keepend oneline

```
syn region psfAttPState matchgroup=psfAttrib start="^\s*\(patch_state\)|s\+" contains=psfPState,psfComment
end="$" keepend oneline
```

```
syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)|s\+"
contains=psfBoolean,psfComment end="$" keepend oneline
```

```
syn match psfComment "#.*$"
```

```
" Define the default highlighting.
```

```
" For version 5.7 and earlier: only when not done already
```

```
" For version 5.8 and later: only when an item doesn't have highlighting yet
```

```
if version >= 508 || !exists("did_psf_syntax_inits")
```

```
if version < 508
```

```
let did_psf_syntax_inits = 1
```

```
command -nargs=+ HiLink hi link <args>
```

```
else
```

```
command -nargs=+ HiLink hi def link <args>
```

```
endif
```

```
HiLink psfObject Statement
```

```
HiLink psfAttrib Type
```

```
HiLink psfQuotString String
```

```
HiLink psfObjTag Identifier
```

```
HiLink psfAttAbbrev PreProc
```

```
HiLink psfObjTags Identifier
```

```
HiLink psfComment Comment
```

```
delcommand HiLink
```

```
endif
```

```
" Long descriptions and copyrights confuse the syntax highlighting, so
```

```
" force vim to backup at least 100 lines before the top visible line
```

```
" looking for a sync location.
```

```
syn sync lines=100
```

```
let b:current_syntax = "psf"
```

```
/*
```

```
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```

```
*
```

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 (XPM - X PixMap format version 2 & 3)
 Internet: lehors@sophia.inria.fr
 Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
 Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.621 tomcat-api 9.0.37

1.621.1 Available under license :

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1.622 log4j-api 2.11.1

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1.626 redis 3.2.5

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1.627 spring-asm 3.1.4.RELEASE

1.628 gpm 1.20.6 12.e16

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1.630 cxf-tools-misctools 2.7.4

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1.631 unixodbc 2.2.14 14.el6

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How to contact the author:

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1.633 sg3-utils 1.28-6.el6

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Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
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1.634 xmlschema 1.4.7

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1.635 slf4j-simple 1.6.1

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```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/util/WebUtils.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/processors/PropertyNameProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/regexp/RegexpMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/util/CycleDetectionStrategy.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/JSONFunction.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/util/JSONUtils.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/processors/DefaultValueProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/util/JavaIdentifierTransformer.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/processors/DefaultDefaultValueProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/filters/TruePropertyFilter.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/JsonConfig.java
```

* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/util/NewBeanInstanceStrategy.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/JSONObject.java
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* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/test/JSONAssert.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/AbstractJSON.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/util/PropertySetStrategy.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsonValueProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/filters/MappingPropertyFilter.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/JSONException.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/JSONString.java
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* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-

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* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-jar/net/sf/json/groovy/JsonSlurper.java

1.637 pinentry 0.7.6-6.el6

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1.640 pixman 0.32.8

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1.642 cxf-tools-corba 2.7.4

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1.646 datatype 1.4.01

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1.647 databinding 1.4.0.I20100601 0800

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- Postfix/TLS support was originally developed by Lutz Jaenicke of Brandenburg University of Technology, Cottbus, Germany.

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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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1.649 xmlrpc-c 1.16.24

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1.651 cxf-rt-rs-security-cors 2.7.4

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1.652 spring-tx 3.0.7.RELEASE

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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/object/MappingRecordOperation.java
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/context/BootstrapContextAware.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/OC4JJtaTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionDefinition.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java

* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/UnexpectedRollbackException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/CleanupFailureDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-

jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/CannotSerializeTransactionException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/support/DaoSupport.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/PessimisticLockingFailureException.java
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jar/org/springframework/dao/ConcurrencyFailureException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/DataIntegrityViolationException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/DataAccessResourceFailureException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/IllegalTransactionStateException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/CannotCreateTransactionException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/DataRetrievalFailureException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/InvalidIsolationLevelException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/UncategorizedDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/EmptyResultDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/HeuristicCompletionException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-

jar/org/springframework/transaction/NoTransactionException.java
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jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/DefaultTransactionStatus.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java

1.653 axis2-transport-local 1.6.1

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1.661 cxf-rt-transport-http-hc 2.7.4

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1.662 commons-lang3 2.5

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1.663 libogg 1.1.4-2.1.el6

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1.664 datatype 1.0

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/**
 * Returns confidentiality override flag.
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```
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/saml2/binding/encoding/HandlerChainAwareHTTPSOAP11Encoder.java
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```

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```
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/xacml/policy/impl/SubjectsTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/xacml/policy/impl/ObligationTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/saml2/core/GetComplete.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/saml2/metadata/impl/RoleDescriptorUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/saml2/core/impl/ScopingBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/saml2/metadata/impl/AdditionalMetadataLocationBuilder.java
```

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/binding/artifact/AbstractSAML2Artifact.java

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/samlext/saml2mdui/impl/UIInfoImpl.java

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/ActionUnmarshaller.java

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/BaseIDUnmarshaller.java

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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/validator/AudienceRestrictionSchemaValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/EnvironmentTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/XACMLObject.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/DomainHintImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AffiliateMemberBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/AuthzDecisionQueryUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/SubjectConfirmationUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/ResourceTypeImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/EntitiesDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/common/binding/decoding/URIComparator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/AssertionIDReference.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/validator/ArtifactResolutionServiceSpecValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/ObligationsType.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AttributeProfileMarshaller.java

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/PDPDescriptorUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/samlext/saml2delrestrict/impl/DelegationRestrictionTypeImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/AuthorityBindingMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/ecp/impl/ResponseUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/AuthnContextDeclRef.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/EncryptedAssertion.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/samlext/saml2mdui/impl/KeywordsImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/PolicySetCombinerParametersTypeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/provider/AbstractReloadingMetadataProvider.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/ResourcesTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/AssertionIDRequestMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/profile/saml/XACMLAuthzDecisionQueryType.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/AttributeService.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/RequestedAuthnContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/Advice.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/ObligationTypeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/AttributeStatementMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/ArtifactUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/validator/LogoutRequestSchemaValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/ecp/impl/ResponseBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/SubjectAttributeDesignatorTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/SubjectUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/AudienceRestrictionUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/CompanyMarshaller.java

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/SurNameImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/StatusDetailType.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/ResourceMatchTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/samlext/saml2mdui/InformationURL.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/validator/StatusCodeSchemaValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/provider/SignatureValidationFilter.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/CombinerParametersTypeMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/AuthnStatement.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/provider/FilesystemMetadataProvider.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/ProxyRestrictionBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/IdReferenceTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/ArtifactResolveMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/ResponseTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/validator/SSODescriptorSpecValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/AttributeSelectorTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/SubjectTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/encryption/Encrypter.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/EvidenceBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/RequestAbstractTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/ProxyRestrictionUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/ResultTypeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/validator/OrganizationSchemaValidator.java

* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/impl/AbstractXACMLObjectMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/AttributeAssignmentTypeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/AttributeValueTypeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/profile/saml/impl/ReferencedPoliciesTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/ManageNameIDResponse.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/validator/AssertionIDRequestServiceSchemaValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AffiliationDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/provider/ObligationProcessingException.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AuthnQueryServiceImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/AuthorizationDecisionQueryUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/validator/ArtifactResolveSchemaValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/EntityDescriptor.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/RequestedAuthnContextUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/validator/ConditionsSpecValidator.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AdditionalMetadataLocationUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/AudienceImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/ActionsTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/VariableDefinitionTypeImpl.java

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StartFontMetrics 4.1

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Comment UniqueID 43066

Comment VMusage 45874 56899

FontName Times-BoldItalic
FullName Times Bold Italic
FamilyName Times
Weight Bold
ItalicAngle -15
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -200 -218 996 921
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
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EncodingScheme AdobeStandardEncoding
CapHeight 669
XHeight 462
Ascender 683
Descender -217
StdHW 42
StdVW 121
StartCharMetrics 315
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C 33 ; WX 389 ; N exclam ; B 67 -13 370 684 ;
C 34 ; WX 555 ; N quotedbl ; B 136 398 536 685 ;
C 35 ; WX 500 ; N numbersign ; B -33 0 533 700 ;
C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;
C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;
C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;
C 39 ; WX 333 ; N quoteright ; B 98 369 302 685 ;
C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;
C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;
C 42 ; WX 500 ; N asterisk ; B 65 249 456 685 ;
C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;
C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;
C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;
C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;
C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;
C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;
C 49 ; WX 500 ; N one ; B 5 0 419 683 ;
C 50 ; WX 500 ; N two ; B -27 0 446 683 ;
C 51 ; WX 500 ; N three ; B -15 -13 450 683 ;
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C 53 ; WX 500 ; N five ; B -11 -13 487 669 ;
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C 55 ; WX 500 ; N seven ; B 52 0 525 669 ;
C 56 ; WX 500 ; N eight ; B 3 -13 476 683 ;
C 57 ; WX 500 ; N nine ; B -12 -10 475 683 ;
C 58 ; WX 333 ; N colon ; B 23 -13 264 459 ;

C 59 ; WX 333 ; N semicolon ; B -25 -183 264 459 ;
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;
C 63 ; WX 500 ; N question ; B 79 -13 470 684 ;
C 64 ; WX 832 ; N at ; B 63 -18 770 685 ;
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C 66 ; WX 667 ; N B ; B -24 0 624 669 ;
C 67 ; WX 667 ; N C ; B 32 -18 677 685 ;
C 68 ; WX 722 ; N D ; B -46 0 685 669 ;
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C 71 ; WX 722 ; N G ; B 21 -18 706 685 ;
C 72 ; WX 778 ; N H ; B -24 0 799 669 ;
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C 83 ; WX 556 ; N S ; B 2 -18 526 685 ;
C 84 ; WX 611 ; N T ; B 50 0 650 669 ;
C 85 ; WX 722 ; N U ; B 67 -18 744 669 ;
C 86 ; WX 667 ; N V ; B 65 -18 715 669 ;
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C 91 ; WX 333 ; N bracketleft ; B -37 -159 362 674 ;
C 92 ; WX 278 ; N backslash ; B -1 -18 279 685 ;
C 93 ; WX 333 ; N bracketright ; B -56 -157 343 674 ;
C 94 ; WX 570 ; N asciicircum ; B 67 304 503 669 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 128 369 332 685 ;
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C 98 ; WX 500 ; N b ; B -14 -13 444 699 ;
C 99 ; WX 444 ; N c ; B -5 -13 392 462 ;
C 100 ; WX 500 ; N d ; B -21 -13 517 699 ;
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C 102 ; WX 333 ; N f ; B -169 -205 446 698 ; L i f i ; L l f l ;
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C 104 ; WX 556 ; N h ; B -13 -9 498 699 ;
C 105 ; WX 278 ; N i ; B 2 -9 263 684 ;
C 106 ; WX 278 ; N j ; B -189 -207 279 684 ;

C 107 ; WX 500 ; N k ; B -23 -8 483 699 ;
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C 109 ; WX 778 ; N m ; B -14 -9 722 462 ;
C 110 ; WX 556 ; N n ; B -6 -9 493 462 ;
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C 112 ; WX 500 ; N p ; B -120 -205 446 462 ;
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C 114 ; WX 389 ; N r ; B -21 0 389 462 ;
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C 116 ; WX 278 ; N t ; B -11 -9 281 594 ;
C 117 ; WX 556 ; N u ; B 15 -9 492 462 ;
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C 121 ; WX 444 ; N y ; B -94 -205 392 462 ;
C 122 ; WX 389 ; N z ; B -43 -78 368 449 ;
C 123 ; WX 348 ; N braceleft ; B 5 -187 436 686 ;
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;
C 125 ; WX 348 ; N braceright ; B -129 -187 302 686 ;
C 126 ; WX 570 ; N asciitilde ; B 54 173 516 333 ;
C 161 ; WX 389 ; N exclamdown ; B 19 -205 322 492 ;
C 162 ; WX 500 ; N cent ; B 42 -143 439 576 ;
C 163 ; WX 500 ; N sterling ; B -32 -12 510 683 ;
C 164 ; WX 167 ; N fraction ; B -169 -14 324 683 ;
C 165 ; WX 500 ; N yen ; B 33 0 628 669 ;
C 166 ; WX 500 ; N florin ; B -87 -156 537 707 ;
C 167 ; WX 500 ; N section ; B 36 -143 459 685 ;
C 168 ; WX 500 ; N currency ; B -26 34 526 586 ;
C 169 ; WX 278 ; N quotesingle ; B 128 398 268 685 ;
C 170 ; WX 500 ; N quotedblleft ; B 53 369 513 685 ;
C 171 ; WX 500 ; N guillemotleft ; B 12 32 468 415 ;
C 172 ; WX 333 ; N guilsinglleft ; B 32 32 303 415 ;
C 173 ; WX 333 ; N guilsinglright ; B 10 32 281 415 ;
C 174 ; WX 556 ; N fi ; B -188 -205 514 703 ;
C 175 ; WX 556 ; N fl ; B -186 -205 553 704 ;
C 177 ; WX 500 ; N endash ; B -40 178 477 269 ;
C 178 ; WX 500 ; N dagger ; B 91 -145 494 685 ;
C 179 ; WX 500 ; N daggerdbl ; B 10 -139 493 685 ;
C 180 ; WX 250 ; N periodcentered ; B 51 257 199 405 ;
C 182 ; WX 500 ; N paragraph ; B -57 -193 562 669 ;
C 183 ; WX 350 ; N bullet ; B 0 175 350 525 ;
C 184 ; WX 333 ; N quotesinglbase ; B -5 -182 199 134 ;
C 185 ; WX 500 ; N quotedblbase ; B -57 -182 403 134 ;
C 186 ; WX 500 ; N quotedblright ; B 53 369 513 685 ;
C 187 ; WX 500 ; N guillemotright ; B 12 32 468 415 ;
C 188 ; WX 1000 ; N ellipsis ; B 40 -13 852 135 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -29 996 706 ;
C 191 ; WX 500 ; N questiondown ; B 30 -205 421 492 ;

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C 197 ; WX 333 ; N macron ; B 51 553 393 623 ;
C 198 ; WX 333 ; N breve ; B 71 516 387 678 ;
C 199 ; WX 333 ; N dotaccent ; B 163 550 298 684 ;
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C 202 ; WX 333 ; N ring ; B 127 516 340 729 ;
C 203 ; WX 333 ; N cedilla ; B -80 -218 156 5 ;
C 205 ; WX 333 ; N hungarumlaut ; B 69 516 498 697 ;
C 206 ; WX 333 ; N ogonek ; B 15 -183 244 34 ;
C 207 ; WX 333 ; N caron ; B 79 516 411 690 ;
C 208 ; WX 1000 ; N emdash ; B -40 178 977 269 ;
C 225 ; WX 944 ; N AE ; B -64 0 918 669 ;
C 227 ; WX 266 ; N ordfeminine ; B 16 399 330 685 ;
C 232 ; WX 611 ; N Lslash ; B -22 0 590 669 ;
C 233 ; WX 722 ; N Oslash ; B 27 -125 691 764 ;
C 234 ; WX 944 ; N OE ; B 23 -8 946 677 ;
C 235 ; WX 300 ; N ordmasculine ; B 56 400 347 685 ;
C 241 ; WX 722 ; N ae ; B -5 -13 673 462 ;
C 245 ; WX 278 ; N dotlessi ; B 2 -9 238 462 ;
C 248 ; WX 278 ; N lslash ; B -7 -9 307 699 ;
C 249 ; WX 500 ; N oslash ; B -3 -119 441 560 ;
C 250 ; WX 722 ; N oe ; B 6 -13 674 462 ;
C 251 ; WX 500 ; N germandbls ; B -200 -200 473 705 ;
C -1 ; WX 389 ; N Idieresis ; B -32 0 450 862 ;
C -1 ; WX 444 ; N eacute ; B 5 -13 435 697 ;
C -1 ; WX 500 ; N abreve ; B -21 -14 471 678 ;
C -1 ; WX 556 ; N uhungarumlaut ; B 15 -9 610 697 ;
C -1 ; WX 444 ; N ecaron ; B 5 -13 467 690 ;
C -1 ; WX 611 ; N Ydieresis ; B 73 0 659 862 ;
C -1 ; WX 570 ; N divide ; B 33 -29 537 535 ;
C -1 ; WX 611 ; N Yacute ; B 73 0 659 904 ;
C -1 ; WX 667 ; N Acircumflex ; B -67 0 593 897 ;
C -1 ; WX 500 ; N aacute ; B -21 -14 463 697 ;
C -1 ; WX 722 ; N Ucircumflex ; B 67 -18 744 897 ;
C -1 ; WX 444 ; N yacute ; B -94 -205 435 697 ;
C -1 ; WX 389 ; N scommaaccent ; B -19 -218 333 462 ;
C -1 ; WX 444 ; N ecircumflex ; B 5 -13 423 690 ;
C -1 ; WX 722 ; N Uring ; B 67 -18 744 921 ;
C -1 ; WX 722 ; N Udieresis ; B 67 -18 744 862 ;
C -1 ; WX 500 ; N aogonek ; B -21 -183 455 462 ;
C -1 ; WX 722 ; N Uacute ; B 67 -18 744 904 ;
C -1 ; WX 556 ; N uogonek ; B 15 -183 492 462 ;
C -1 ; WX 667 ; N Edieresis ; B -27 0 653 862 ;
C -1 ; WX 722 ; N Dcroat ; B -31 0 700 669 ;
C -1 ; WX 250 ; N commaaccent ; B -36 -218 131 -50 ;

C -1 ; WX 747 ; N copyright ; B 30 -18 718 685 ;
C -1 ; WX 667 ; N Emacron ; B -27 0 653 830 ;
C -1 ; WX 444 ; N ccaron ; B -5 -13 467 690 ;
C -1 ; WX 500 ; N aring ; B -21 -14 455 729 ;
C -1 ; WX 722 ; N Ncommaaccent ; B -27 -218 748 669 ;
C -1 ; WX 278 ; N lacute ; B 2 -9 392 904 ;
C -1 ; WX 500 ; N agrave ; B -21 -14 455 697 ;
C -1 ; WX 611 ; N Tcommaaccent ; B 50 -218 650 669 ;
C -1 ; WX 667 ; N Cacute ; B 32 -18 677 904 ;
C -1 ; WX 500 ; N atilde ; B -21 -14 491 655 ;
C -1 ; WX 667 ; N Edotaccent ; B -27 0 653 862 ;
C -1 ; WX 389 ; N scaron ; B -19 -13 424 690 ;
C -1 ; WX 389 ; N scedilla ; B -19 -218 333 462 ;
C -1 ; WX 278 ; N iacute ; B 2 -9 352 697 ;
C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;
C -1 ; WX 667 ; N Rcaron ; B -29 0 623 897 ;
C -1 ; WX 722 ; N Gcommaaccent ; B 21 -218 706 685 ;
C -1 ; WX 556 ; N ucircumflex ; B 15 -9 492 690 ;
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C -1 ; WX 667 ; N Amacron ; B -67 0 593 830 ;
C -1 ; WX 389 ; N rcaron ; B -21 0 424 690 ;
C -1 ; WX 444 ; N ccedilla ; B -5 -218 392 462 ;
C -1 ; WX 611 ; N Zdotaccent ; B -11 0 590 862 ;
C -1 ; WX 611 ; N Thorn ; B -27 0 573 669 ;
C -1 ; WX 722 ; N Omacron ; B 27 -18 691 830 ;
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C -1 ; WX 556 ; N Sacute ; B 2 -18 531 904 ;
C -1 ; WX 608 ; N dcaron ; B -21 -13 675 708 ;
C -1 ; WX 722 ; N Umacron ; B 67 -18 744 830 ;
C -1 ; WX 556 ; N uring ; B 15 -9 492 729 ;
C -1 ; WX 300 ; N threesuperior ; B 17 265 321 683 ;
C -1 ; WX 722 ; N Ograve ; B 27 -18 691 904 ;
C -1 ; WX 667 ; N Agrave ; B -67 0 593 904 ;
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C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;
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C -1 ; WX 611 ; N Tcaron ; B 50 0 650 897 ;
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;
C -1 ; WX 444 ; N ydieresis ; B -94 -205 443 655 ;
C -1 ; WX 722 ; N Nacute ; B -27 -15 748 904 ;
C -1 ; WX 278 ; N icircumflex ; B -3 -9 324 690 ;
C -1 ; WX 667 ; N Ecircumflex ; B -27 0 653 897 ;
C -1 ; WX 500 ; N adieresis ; B -21 -14 476 655 ;
C -1 ; WX 444 ; N edieresis ; B 5 -13 448 655 ;
C -1 ; WX 444 ; N cacute ; B -5 -13 435 697 ;
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C -1 ; WX 556 ; N umacron ; B 15 -9 492 623 ;
C -1 ; WX 722 ; N Ncaron ; B -27 -15 748 897 ;

C -1 ; WX 389 ; N Iacute ; B -32 0 432 904 ;
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C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;
C -1 ; WX 747 ; N registered ; B 30 -18 718 685 ;
C -1 ; WX 722 ; N Gbreve ; B 21 -18 706 885 ;
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C -1 ; WX 722 ; N Eth ; B -31 0 700 669 ;
C -1 ; WX 667 ; N Ccedilla ; B 32 -218 677 685 ;
C -1 ; WX 278 ; N lcommaaccent ; B -42 -218 290 699 ;
C -1 ; WX 366 ; N tcaron ; B -11 -9 434 754 ;
C -1 ; WX 444 ; N eogonek ; B 5 -183 398 462 ;
C -1 ; WX 722 ; N Uogonek ; B 67 -183 744 669 ;
C -1 ; WX 667 ; N Aacute ; B -67 0 593 904 ;
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C -1 ; WX 389 ; N zacute ; B -43 -78 407 697 ;
C -1 ; WX 278 ; N iogonek ; B -20 -183 263 684 ;
C -1 ; WX 722 ; N Oacute ; B 27 -18 691 904 ;
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C -1 ; WX 389 ; N sacute ; B -19 -13 407 697 ;
C -1 ; WX 278 ; N idieresis ; B 2 -9 364 655 ;
C -1 ; WX 722 ; N Ocircumflex ; B 27 -18 691 897 ;
C -1 ; WX 722 ; N Ugrave ; B 67 -18 744 904 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
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C -1 ; WX 722 ; N Odieresis ; B 27 -18 691 862 ;
C -1 ; WX 576 ; N mu ; B -60 -207 516 449 ;
C -1 ; WX 278 ; N igrave ; B 2 -9 259 697 ;
C -1 ; WX 500 ; N ohungarumlaut ; B -3 -13 582 697 ;
C -1 ; WX 667 ; N Eogonek ; B -27 -183 653 669 ;
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C -1 ; WX 750 ; N threequarters ; B 7 -14 726 683 ;
C -1 ; WX 556 ; N Scedilla ; B 2 -218 526 685 ;
C -1 ; WX 382 ; N lcaron ; B 2 -9 448 708 ;
C -1 ; WX 667 ; N Kcommaaccent ; B -21 -218 702 669 ;
C -1 ; WX 611 ; N Lacute ; B -22 0 590 904 ;
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C -1 ; WX 389 ; N Igrave ; B -32 0 406 904 ;

C -1 ; WX 389 ; N Imacron ; B -32 0 461 830 ;
C -1 ; WX 611 ; N Lcaron ; B -22 0 671 718 ;
C -1 ; WX 750 ; N onehalf ; B -9 -14 723 683 ;
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;
C -1 ; WX 500 ; N ocircumflex ; B -3 -13 451 690 ;
C -1 ; WX 556 ; N ntilde ; B -6 -9 504 655 ;
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C -1 ; WX 667 ; N Eacute ; B -27 0 653 904 ;
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C -1 ; WX 500 ; N gbreve ; B -52 -203 478 678 ;
C -1 ; WX 750 ; N onequarter ; B 7 -14 721 683 ;
C -1 ; WX 556 ; N Scaron ; B 2 -18 553 897 ;
C -1 ; WX 556 ; N Scommaaccent ; B 2 -218 526 685 ;
C -1 ; WX 722 ; N Ohungarumlaut ; B 27 -18 723 904 ;
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C -1 ; WX 556 ; N ugrave ; B 15 -9 492 697 ;
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C -1 ; WX 722 ; N Dcaron ; B -46 0 685 897 ;
C -1 ; WX 389 ; N rcommaaccent ; B -67 -218 389 462 ;
C -1 ; WX 722 ; N Ntilde ; B -27 -15 748 862 ;
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C -1 ; WX 611 ; N Lcommaaccent ; B -22 -218 590 669 ;
C -1 ; WX 667 ; N Atilde ; B -67 0 593 862 ;
C -1 ; WX 667 ; N Aogonek ; B -67 -183 604 683 ;
C -1 ; WX 667 ; N Aring ; B -67 0 593 921 ;
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C -1 ; WX 389 ; N zdotaccent ; B -43 -78 368 655 ;
C -1 ; WX 667 ; N Ecaron ; B -27 0 653 897 ;
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C -1 ; WX 500 ; N kcommaaccent ; B -23 -218 483 699 ;
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C -1 ; WX 389 ; N Icircumflex ; B -32 0 450 897 ;
C -1 ; WX 556 ; N ncaron ; B -6 -9 523 690 ;
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C -1 ; WX 500 ; N odieresis ; B -3 -13 471 655 ;
C -1 ; WX 556 ; N udieresis ; B 15 -9 499 655 ;
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;
C -1 ; WX 500 ; N gcommaaccent ; B -52 -203 478 767 ;
C -1 ; WX 500 ; N eth ; B -3 -13 454 699 ;
C -1 ; WX 389 ; N zcaron ; B -43 -78 424 690 ;
C -1 ; WX 556 ; N ncommaaccent ; B -6 -218 493 462 ;
C -1 ; WX 300 ; N onesuperior ; B 30 274 301 683 ;
C -1 ; WX 278 ; N imacron ; B 2 -9 294 623 ;
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

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KPX kcommaaccent odieresis -10
KPX kcommaaccent ograve -10
KPX kcommaaccent ohungarumlaut -10

KPX kcommaaccent omacron -10
KPX kcommaaccent oslash -10
KPX kcommaaccent otilde -10
KPX n v -40
KPX nacute v -40
KPX ncaron v -40
KPX ncommaaccent v -40
KPX ntilde v -40
KPX o v -15
KPX o w -25
KPX o x -10
KPX o y -10
KPX o yacute -10
KPX o ydieresis -10
KPX oacute v -15
KPX oacute w -25
KPX oacute x -10
KPX oacute y -10
KPX oacute yacute -10
KPX oacute ydieresis -10
KPX ocircumflex v -15
KPX ocircumflex w -25
KPX ocircumflex x -10
KPX ocircumflex y -10
KPX ocircumflex yacute -10
KPX ocircumflex ydieresis -10
KPX odieresis v -15
KPX odieresis w -25
KPX odieresis x -10
KPX odieresis y -10
KPX odieresis yacute -10
KPX odieresis ydieresis -10
KPX ograve v -15
KPX ograve w -25
KPX ograve x -10
KPX ograve y -10
KPX ograve yacute -10
KPX ograve ydieresis -10
KPX ohungarumlaut v -15
KPX ohungarumlaut w -25
KPX ohungarumlaut x -10
KPX ohungarumlaut y -10
KPX ohungarumlaut yacute -10
KPX ohungarumlaut ydieresis -10
KPX omacron v -15
KPX omacron w -25
KPX omacron x -10
KPX omacron y -10

KPX omacron yacute -10
KPX omacron ydieresis -10
KPX oslash v -15
KPX oslash w -25
KPX oslash x -10
KPX oslash y -10
KPX oslash yacute -10
KPX oslash ydieresis -10
KPX otilde v -15
KPX otilde w -25
KPX otilde x -10
KPX otilde y -10
KPX otilde yacute -10
KPX otilde ydieresis -10
KPX period quotedblright -95
KPX period quoteright -95
KPX quoteleft quoteleft -74
KPX quoteright d -15
KPX quoteright dcroat -15
KPX quoteright quoteright -74
KPX quoteright r -15
KPX quoteright racute -15
KPX quoteright rcaron -15
KPX quoteright rcommaaccent -15
KPX quoteright s -74
KPX quoteright sacute -74
KPX quoteright scaron -74
KPX quoteright scedilla -74
KPX quoteright scommaaccent -74
KPX quoteright space -74
KPX quoteright t -37
KPX quoteright tcommaaccent -37
KPX quoteright v -15
KPX r comma -65
KPX r period -65
KPX racute comma -65
KPX racute period -65
KPX rcaron comma -65
KPX rcaron period -65
KPX rcommaaccent comma -65
KPX rcommaaccent period -65
KPX space A -37
KPX space Aacute -37
KPX space Abreve -37
KPX space Acircumflex -37
KPX space Adieresis -37
KPX space Agrave -37
KPX space Amacron -37

KPX space Aogonek -37
KPX space Aring -37
KPX space Atilde -37
KPX space V -70
KPX space W -70
KPX space Y -70
KPX space Yacute -70
KPX space Ydieresis -70
KPX v comma -37
KPX v e -15
KPX v eacute -15
KPX v ecaron -15
KPX v ecircumflex -15
KPX v edieresis -15
KPX v edotaccent -15
KPX v egrave -15
KPX v emacron -15
KPX v eogonek -15
KPX v o -15
KPX v oacute -15
KPX v ocircumflex -15
KPX v odieresis -15
KPX v ograve -15
KPX v ohungarumlaut -15
KPX v omacron -15
KPX v oslash -15
KPX v otilde -15
KPX v period -37
KPX w a -10
KPX w aacute -10
KPX w abreve -10
KPX w acircumflex -10
KPX w adieresis -10
KPX w agrave -10
KPX w amacron -10
KPX w aogonek -10
KPX w aring -10
KPX w atilde -10
KPX w comma -37
KPX w e -10
KPX w eacute -10
KPX w ecaron -10
KPX w ecircumflex -10
KPX w edieresis -10
KPX w edotaccent -10
KPX w egrave -10
KPX w emacron -10
KPX w eogonek -10

KPX w o -15
KPX w oacute -15
KPX w ocircumflex -15
KPX w odieresis -15
KPX w ograve -15
KPX w ohungarumlaut -15
KPX w omacron -15
KPX w oslash -15
KPX w otilde -15
KPX w period -37
KPX x e -10
KPX x eacute -10
KPX x ecaron -10
KPX x ecircumflex -10
KPX x edieresis -10
KPX x edotaccent -10
KPX x egrave -10
KPX x emacron -10
KPX x eogonek -10
KPX y comma -37
KPX y period -37
KPX yacute comma -37
KPX yacute period -37
KPX ydieresis comma -37
KPX ydieresis period -37
EndKernPairs
EndKernData
EndFontMetrics

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Times-BoldItalic.afm

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```
#####  
# Copyright (C) The Apache Software Foundation. All rights reserved. #  
# ----- #  
# This software is published under the terms of the Apache Software License #  
# version 1.1, a copy of which has been included with this distribution in #  
# the LICENSE file. #  
#####
```

```
# This file registers the example DOM extension as a service for the  
# SVGOMDocument.  
org.apache.batik.extension.svg.BatikDomExtension
```

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-

INF/services/org.apache.batik.dom.svg.DomExtension

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dimensional graphics in XML.

The Scalable Vector Graphics (SVG)

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Revision: \$Id: svg11.dtd,v 1.1 2002/11/13 09:51:12 vhardy Exp \$

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11.dtd

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StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.

Comment Creation Date: Thu May 1 15:12:25 1997

Comment UniqueID 43064

Comment VMusage 30820 39997

FontName Symbol

FullName Symbol

FamilyName Symbol

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet Special

FontBBox -180 -293 1090 1010

UnderlinePosition -100

UnderlineThickness 50

Version 001.008

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EncodingScheme FontSpecific

StdHW 92

StdVW 85

StartCharMetrics 190

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 128 -17 240 672 ;
C 34 ; WX 713 ; N universal ; B 31 0 681 705 ;
C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;
C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;
C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;
C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;
C 39 ; WX 439 ; N suchthat ; B 48 -17 414 500 ;
C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;
C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;
C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;
C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;
C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;
C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;
C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;
C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;
C 48 ; WX 500 ; N zero ; B 24 -14 476 685 ;
C 49 ; WX 500 ; N one ; B 117 0 390 673 ;
C 50 ; WX 500 ; N two ; B 25 0 475 685 ;
C 51 ; WX 500 ; N three ; B 43 -14 435 685 ;
C 52 ; WX 500 ; N four ; B 15 0 469 685 ;
C 53 ; WX 500 ; N five ; B 32 -14 445 690 ;
C 54 ; WX 500 ; N six ; B 34 -14 468 685 ;
C 55 ; WX 500 ; N seven ; B 24 -16 448 673 ;
C 56 ; WX 500 ; N eight ; B 56 -14 445 685 ;
C 57 ; WX 500 ; N nine ; B 30 -18 459 685 ;
C 58 ; WX 278 ; N colon ; B 81 -17 193 460 ;
C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;
C 60 ; WX 549 ; N less ; B 26 0 523 522 ;
C 61 ; WX 549 ; N equal ; B 11 141 537 390 ;
C 62 ; WX 549 ; N greater ; B 26 0 523 522 ;
C 63 ; WX 444 ; N question ; B 70 -17 412 686 ;
C 64 ; WX 549 ; N congruent ; B 11 0 537 475 ;
C 65 ; WX 722 ; N Alpha ; B 4 0 684 673 ;
C 66 ; WX 667 ; N Beta ; B 29 0 592 673 ;
C 67 ; WX 722 ; N Chi ; B -9 0 704 673 ;
C 68 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C 69 ; WX 611 ; N Epsilon ; B 32 0 617 673 ;
C 70 ; WX 763 ; N Phi ; B 26 0 741 673 ;
C 71 ; WX 603 ; N Gamma ; B 24 0 609 673 ;
C 72 ; WX 722 ; N Eta ; B 39 0 729 673 ;
C 73 ; WX 333 ; N Iota ; B 32 0 316 673 ;
C 74 ; WX 631 ; N theta1 ; B 18 -18 623 689 ;
C 75 ; WX 722 ; N Kappa ; B 35 0 722 673 ;
C 76 ; WX 686 ; N Lambda ; B 6 0 680 688 ;
C 77 ; WX 889 ; N Mu ; B 28 0 887 673 ;
C 78 ; WX 722 ; N Nu ; B 29 -8 720 673 ;
C 79 ; WX 722 ; N Omicron ; B 41 -17 715 685 ;
C 80 ; WX 768 ; N Pi ; B 25 0 745 673 ;

C 81 ; WX 741 ; N Theta ; B 41 -17 715 685 ;
C 82 ; WX 556 ; N Rho ; B 28 0 563 673 ;
C 83 ; WX 592 ; N Sigma ; B 5 0 589 673 ;
C 84 ; WX 611 ; N Tau ; B 33 0 607 673 ;
C 85 ; WX 690 ; N Upsilon ; B -8 0 694 673 ;
C 86 ; WX 439 ; N sigma1 ; B 40 -233 436 500 ;
C 87 ; WX 768 ; N Omega ; B 34 0 736 688 ;
C 88 ; WX 645 ; N Xi ; B 40 0 599 673 ;
C 89 ; WX 795 ; N Psi ; B 15 0 781 684 ;
C 90 ; WX 611 ; N Zeta ; B 44 0 636 673 ;
C 91 ; WX 333 ; N bracketleft ; B 86 -155 299 674 ;
C 92 ; WX 863 ; N therefore ; B 163 0 701 487 ;
C 93 ; WX 333 ; N bracketright ; B 33 -155 246 674 ;
C 94 ; WX 658 ; N perpendicular ; B 15 0 652 674 ;
C 95 ; WX 500 ; N underscore ; B -2 -125 502 -75 ;
C 96 ; WX 500 ; N radicalex ; B 480 881 1090 917 ;
C 97 ; WX 631 ; N alpha ; B 41 -18 622 500 ;
C 98 ; WX 549 ; N beta ; B 61 -223 515 741 ;
C 99 ; WX 549 ; N chi ; B 12 -231 522 499 ;
C 100 ; WX 494 ; N delta ; B 40 -19 481 740 ;
C 101 ; WX 439 ; N epsilon ; B 22 -19 427 502 ;
C 102 ; WX 521 ; N phi ; B 28 -224 492 673 ;
C 103 ; WX 411 ; N gamma ; B 5 -225 484 499 ;
C 104 ; WX 603 ; N eta ; B 0 -202 527 514 ;
C 105 ; WX 329 ; N iota ; B 0 -17 301 503 ;
C 106 ; WX 603 ; N phi1 ; B 36 -224 587 499 ;
C 107 ; WX 549 ; N kappa ; B 33 0 558 501 ;
C 108 ; WX 549 ; N lambda ; B 24 -17 548 739 ;
C 109 ; WX 576 ; N mu ; B 33 -223 567 500 ;
C 110 ; WX 521 ; N nu ; B -9 -16 475 507 ;
C 111 ; WX 549 ; N omicron ; B 35 -19 501 499 ;
C 112 ; WX 549 ; N pi ; B 10 -19 530 487 ;
C 113 ; WX 521 ; N theta ; B 43 -17 485 690 ;
C 114 ; WX 549 ; N rho ; B 50 -230 490 499 ;
C 115 ; WX 603 ; N sigma ; B 30 -21 588 500 ;
C 116 ; WX 439 ; N tau ; B 10 -19 418 500 ;
C 117 ; WX 576 ; N upsilon ; B 7 -18 535 507 ;
C 118 ; WX 713 ; N omega1 ; B 12 -18 671 583 ;
C 119 ; WX 686 ; N omega ; B 42 -17 684 500 ;
C 120 ; WX 493 ; N xi ; B 27 -224 469 766 ;
C 121 ; WX 686 ; N psi ; B 12 -228 701 500 ;
C 122 ; WX 494 ; N zeta ; B 60 -225 467 756 ;
C 123 ; WX 480 ; N braceleft ; B 58 -183 397 673 ;
C 124 ; WX 200 ; N bar ; B 65 -293 135 707 ;
C 125 ; WX 480 ; N braceright ; B 79 -183 418 673 ;
C 126 ; WX 549 ; N similar ; B 17 203 529 307 ;
C 160 ; WX 750 ; N Euro ; B 20 -12 714 685 ;
C 161 ; WX 620 ; N Upsilon1 ; B -2 0 610 685 ;

C 162 ; WX 247 ; N minute ; B 27 459 228 735 ;
C 163 ; WX 549 ; N lessequal ; B 29 0 526 639 ;
C 164 ; WX 167 ; N fraction ; B -180 -12 340 677 ;
C 165 ; WX 713 ; N infinity ; B 26 124 688 404 ;
C 166 ; WX 500 ; N florin ; B 2 -193 494 686 ;
C 167 ; WX 753 ; N club ; B 86 -26 660 533 ;
C 168 ; WX 753 ; N diamond ; B 142 -36 600 550 ;
C 169 ; WX 753 ; N heart ; B 117 -33 631 532 ;
C 170 ; WX 753 ; N spade ; B 113 -36 629 548 ;
C 171 ; WX 1042 ; N arrowboth ; B 24 -15 1024 511 ;
C 172 ; WX 987 ; N arrowleft ; B 32 -15 942 511 ;
C 173 ; WX 603 ; N arrowup ; B 45 0 571 910 ;
C 174 ; WX 987 ; N arrowright ; B 49 -15 959 511 ;
C 175 ; WX 603 ; N arrowdown ; B 45 -22 571 888 ;
C 176 ; WX 400 ; N degree ; B 50 385 350 685 ;
C 177 ; WX 549 ; N plusminus ; B 10 0 539 645 ;
C 178 ; WX 411 ; N second ; B 20 459 413 737 ;
C 179 ; WX 549 ; N greaterequal ; B 29 0 526 639 ;
C 180 ; WX 549 ; N multiply ; B 17 8 533 524 ;
C 181 ; WX 713 ; N proportional ; B 27 123 639 404 ;
C 182 ; WX 494 ; N partialdiff ; B 26 -20 462 746 ;
C 183 ; WX 460 ; N bullet ; B 50 113 410 473 ;
C 184 ; WX 549 ; N divide ; B 10 71 536 456 ;
C 185 ; WX 549 ; N notequal ; B 15 -25 540 549 ;
C 186 ; WX 549 ; N equivalence ; B 14 82 538 443 ;
C 187 ; WX 549 ; N approxequal ; B 14 135 527 394 ;
C 188 ; WX 1000 ; N ellipsis ; B 111 -17 889 95 ;
C 189 ; WX 603 ; N arrowvertex ; B 280 -120 336 1010 ;
C 190 ; WX 1000 ; N arrowhorizex ; B -60 220 1050 276 ;
C 191 ; WX 658 ; N carriagereturn ; B 15 -16 602 629 ;
C 192 ; WX 823 ; N aleph ; B 175 -18 661 658 ;
C 193 ; WX 686 ; N Ifraktur ; B 10 -53 578 740 ;
C 194 ; WX 795 ; N Rfraktur ; B 26 -15 759 734 ;
C 195 ; WX 987 ; N weierstrass ; B 159 -211 870 573 ;
C 196 ; WX 768 ; N circlemultiply ; B 43 -17 733 673 ;
C 197 ; WX 768 ; N circleplus ; B 43 -15 733 675 ;
C 198 ; WX 823 ; N emptyset ; B 39 -24 781 719 ;
C 199 ; WX 768 ; N intersection ; B 40 0 732 509 ;
C 200 ; WX 768 ; N union ; B 40 -17 732 492 ;
C 201 ; WX 713 ; N propersuperset ; B 20 0 673 470 ;
C 202 ; WX 713 ; N reflexsuperset ; B 20 -125 673 470 ;
C 203 ; WX 713 ; N notsubset ; B 36 -70 690 540 ;
C 204 ; WX 713 ; N propersubset ; B 37 0 690 470 ;
C 205 ; WX 713 ; N reflexsubset ; B 37 -125 690 470 ;
C 206 ; WX 713 ; N element ; B 45 0 505 468 ;
C 207 ; WX 713 ; N notelement ; B 45 -58 505 555 ;
C 208 ; WX 768 ; N angle ; B 26 0 738 673 ;
C 209 ; WX 713 ; N gradient ; B 36 -19 681 718 ;

C 210 ; WX 790 ; N registerserif ; B 50 -17 740 673 ;
C 211 ; WX 790 ; N copyrightserif ; B 51 -15 741 675 ;
C 212 ; WX 890 ; N trademarkserif ; B 18 293 855 673 ;
C 213 ; WX 823 ; N product ; B 25 -101 803 751 ;
C 214 ; WX 549 ; N radical ; B 10 -38 515 917 ;
C 215 ; WX 250 ; N dotmath ; B 69 210 169 310 ;
C 216 ; WX 713 ; N logicalnot ; B 15 0 680 288 ;
C 217 ; WX 603 ; N logicaland ; B 23 0 583 454 ;
C 218 ; WX 603 ; N logicalor ; B 30 0 578 477 ;
C 219 ; WX 1042 ; N arrowdblboth ; B 27 -20 1023 510 ;
C 220 ; WX 987 ; N arrowdblleft ; B 30 -15 939 513 ;
C 221 ; WX 603 ; N arrowdblup ; B 39 2 567 911 ;
C 222 ; WX 987 ; N arrowdblright ; B 45 -20 954 508 ;
C 223 ; WX 603 ; N arrowdbldown ; B 44 -19 572 890 ;
C 224 ; WX 494 ; N lozenge ; B 18 0 466 745 ;
C 225 ; WX 329 ; N angleleft ; B 25 -198 306 746 ;
C 226 ; WX 790 ; N registersans ; B 50 -20 740 670 ;
C 227 ; WX 790 ; N copyrightsans ; B 49 -15 739 675 ;
C 228 ; WX 786 ; N trademarksans ; B 5 293 725 673 ;
C 229 ; WX 713 ; N summation ; B 14 -108 695 752 ;
C 230 ; WX 384 ; N parenlefttp ; B 24 -293 436 926 ;
C 231 ; WX 384 ; N parenleftex ; B 24 -85 108 925 ;
C 232 ; WX 384 ; N parenleftbt ; B 24 -293 436 926 ;
C 233 ; WX 384 ; N bracketlefttp ; B 0 -80 349 926 ;
C 234 ; WX 384 ; N bracketleftex ; B 0 -79 77 925 ;
C 235 ; WX 384 ; N bracketleftbt ; B 0 -80 349 926 ;
C 236 ; WX 494 ; N bracelefttp ; B 209 -85 445 925 ;
C 237 ; WX 494 ; N braceleftmid ; B 20 -85 284 935 ;
C 238 ; WX 494 ; N braceleftbt ; B 209 -75 445 935 ;
C 239 ; WX 494 ; N braceex ; B 209 -85 284 935 ;
C 241 ; WX 329 ; N angleright ; B 21 -198 302 746 ;
C 242 ; WX 274 ; N integral ; B 2 -107 291 916 ;
C 243 ; WX 686 ; N integraltp ; B 308 -88 675 920 ;
C 244 ; WX 686 ; N integralex ; B 308 -88 378 975 ;
C 245 ; WX 686 ; N integralbt ; B 11 -87 378 921 ;
C 246 ; WX 384 ; N parenrighttp ; B 54 -293 466 926 ;
C 247 ; WX 384 ; N parenrightex ; B 382 -85 466 925 ;
C 248 ; WX 384 ; N parenrightbt ; B 54 -293 466 926 ;
C 249 ; WX 384 ; N bracketrighttp ; B 22 -80 371 926 ;
C 250 ; WX 384 ; N bracketrightex ; B 294 -79 371 925 ;
C 251 ; WX 384 ; N bracketrightbt ; B 22 -80 371 926 ;
C 252 ; WX 494 ; N bracerighttp ; B 48 -85 284 925 ;
C 253 ; WX 494 ; N bracerightmid ; B 209 -85 473 935 ;
C 254 ; WX 494 ; N bracerightbt ; B 48 -75 284 935 ;
C -1 ; WX 790 ; N apple ; B 56 -3 733 808 ;
EndCharMetrics
EndFontMetrics

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Symbol.afm

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Comment Creation Date: Thu May 1 17:27:09 1997

Comment UniqueID 43050

Comment VMusage 39754 50779

FontName Courier

FullName Courier

FamilyName Courier

Weight Medium

ItalicAngle 0

IsFixedPitch true

CharacterSet ExtendedRoman

FontBBox -23 -250 715 805

UnderlinePosition -100

UnderlineThickness 50

Version 003.000

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EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 426

Ascender 629

Descender -157

StdHW 51

StdVW 51

StartCharMetrics 315

C 32 ; WX 600 ; N space ; B 0 0 0 0 ;

C 33 ; WX 600 ; N exclam ; B 236 -15 364 572 ;

C 34 ; WX 600 ; N quotedbl ; B 187 328 413 562 ;

C 35 ; WX 600 ; N numbersign ; B 93 -32 507 639 ;

C 36 ; WX 600 ; N dollar ; B 105 -126 496 662 ;

C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;

C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;

C 39 ; WX 600 ; N quoteright ; B 213 328 376 562 ;

C 40 ; WX 600 ; N parenleft ; B 269 -108 440 622 ;

C 41 ; WX 600 ; N parenright ; B 160 -108 331 622 ;

C 42 ; WX 600 ; N asterisk ; B 116 257 484 607 ;

C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;

C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;

C 45 ; WX 600 ; N hyphen ; B 103 231 497 285 ;

C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;

C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;

C 48 ; WX 600 ; N zero ; B 106 -15 494 622 ;

C 49 ; WX 600 ; N one ; B 96 0 505 622 ;

C 50 ; WX 600 ; N two ; B 70 0 471 622 ;

C 51 ; WX 600 ; N three ; B 75 -15 466 622 ;
C 52 ; WX 600 ; N four ; B 78 0 500 622 ;
C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;
C 56 ; WX 600 ; N eight ; B 102 -15 498 622 ;
C 57 ; WX 600 ; N nine ; B 96 -15 489 622 ;
C 58 ; WX 600 ; N colon ; B 229 -15 371 385 ;
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;
C 60 ; WX 600 ; N less ; B 41 42 519 472 ;
C 61 ; WX 600 ; N equal ; B 80 138 520 376 ;
C 62 ; WX 600 ; N greater ; B 66 42 544 472 ;
C 63 ; WX 600 ; N question ; B 129 -15 492 572 ;
C 64 ; WX 600 ; N at ; B 77 -15 533 622 ;
C 65 ; WX 600 ; N A ; B 3 0 597 562 ;
C 66 ; WX 600 ; N B ; B 43 0 559 562 ;
C 67 ; WX 600 ; N C ; B 41 -18 540 580 ;
C 68 ; WX 600 ; N D ; B 43 0 574 562 ;
C 69 ; WX 600 ; N E ; B 53 0 550 562 ;
C 70 ; WX 600 ; N F ; B 53 0 545 562 ;
C 71 ; WX 600 ; N G ; B 31 -18 575 580 ;
C 72 ; WX 600 ; N H ; B 32 0 568 562 ;
C 73 ; WX 600 ; N I ; B 96 0 504 562 ;
C 74 ; WX 600 ; N J ; B 34 -18 566 562 ;
C 75 ; WX 600 ; N K ; B 38 0 582 562 ;
C 76 ; WX 600 ; N L ; B 47 0 554 562 ;
C 77 ; WX 600 ; N M ; B 4 0 596 562 ;
C 78 ; WX 600 ; N N ; B 7 -13 593 562 ;
C 79 ; WX 600 ; N O ; B 43 -18 557 580 ;
C 80 ; WX 600 ; N P ; B 79 0 558 562 ;
C 81 ; WX 600 ; N Q ; B 43 -138 557 580 ;
C 82 ; WX 600 ; N R ; B 38 0 588 562 ;
C 83 ; WX 600 ; N S ; B 72 -20 529 580 ;
C 84 ; WX 600 ; N T ; B 38 0 563 562 ;
C 85 ; WX 600 ; N U ; B 17 -18 583 562 ;
C 86 ; WX 600 ; N V ; B -4 -13 604 562 ;
C 87 ; WX 600 ; N W ; B -3 -13 603 562 ;
C 88 ; WX 600 ; N X ; B 23 0 577 562 ;
C 89 ; WX 600 ; N Y ; B 24 0 576 562 ;
C 90 ; WX 600 ; N Z ; B 86 0 514 562 ;
C 91 ; WX 600 ; N bracketleft ; B 269 -108 442 622 ;
C 92 ; WX 600 ; N backslash ; B 118 -80 482 629 ;
C 93 ; WX 600 ; N bracketright ; B 158 -108 331 622 ;
C 94 ; WX 600 ; N asciicircum ; B 94 354 506 622 ;
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;
C 96 ; WX 600 ; N quoteleft ; B 224 328 387 562 ;
C 97 ; WX 600 ; N a ; B 53 -15 559 441 ;
C 98 ; WX 600 ; N b ; B 14 -15 575 629 ;

C 99 ; WX 600 ; N c ; B 66 -15 529 441 ;
C 100 ; WX 600 ; N d ; B 45 -15 591 629 ;
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C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;
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C 126 ; WX 600 ; N asciitilde ; B 63 197 540 320 ;
C 161 ; WX 600 ; N exclamdown ; B 236 -157 364 430 ;
C 162 ; WX 600 ; N cent ; B 96 -49 500 614 ;
C 163 ; WX 600 ; N sterling ; B 84 -21 521 611 ;
C 164 ; WX 600 ; N fraction ; B 92 -57 509 665 ;
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C 166 ; WX 600 ; N florin ; B 4 -143 539 622 ;
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C 203 ; WX 600 ; N cedilla ; B 224 -151 362 10 ;
C 205 ; WX 600 ; N hungarumlaut ; B 133 497 540 672 ;
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C -1 ; WX 600 ; N Delta ; B 6 0 598 688 ;
C -1 ; WX 600 ; N thorn ; B -6 -157 555 629 ;
C -1 ; WX 600 ; N twosuperior ; B 177 249 424 622 ;
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C -1 ; WX 600 ; N igrave ; B 95 0 505 672 ;
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C -1 ; WX 600 ; N onehalf ; B 0 -57 611 665 ;
C -1 ; WX 600 ; N lessequal ; B 98 0 502 710 ;
C -1 ; WX 600 ; N ocircumflex ; B 62 -15 538 654 ;
C -1 ; WX 600 ; N ntilde ; B 26 0 575 606 ;
C -1 ; WX 600 ; N Uhungarumlaut ; B 17 -18 590 805 ;
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C -1 ; WX 600 ; N gbreve ; B 45 -157 566 609 ;
C -1 ; WX 600 ; N onequarter ; B 0 -57 600 665 ;
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C -1 ; WX 600 ; N Scommaaccent ; B 72 -250 529 580 ;
C -1 ; WX 600 ; N Ohungarumlaut ; B 43 -18 580 805 ;
C -1 ; WX 600 ; N degree ; B 123 269 477 622 ;
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C -1 ; WX 600 ; N Ntilde ; B 7 -13 593 729 ;
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C -1 ; WX 600 ; N Rcommaaccent ; B 38 -250 588 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 47 -250 554 562 ;
C -1 ; WX 600 ; N Atilde ; B 3 0 597 729 ;
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C -1 ; WX 600 ; N Ecaron ; B 53 0 550 802 ;
C -1 ; WX 600 ; N Iogonek ; B 96 -172 504 562 ;
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C -1 ; WX 600 ; N minus ; B 80 232 520 283 ;
C -1 ; WX 600 ; N Icircumflex ; B 96 0 504 787 ;
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C -1 ; WX 600 ; N tcommaaccent ; B 87 -250 530 561 ;
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C -1 ; WX 600 ; N odieresis ; B 62 -15 538 620 ;
C -1 ; WX 600 ; N udieresis ; B 21 -15 562 620 ;

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C -1 ; WX 600 ; N gcommaaccent ; B 45 -157 566 708 ;
C -1 ; WX 600 ; N eth ; B 62 -15 538 629 ;
C -1 ; WX 600 ; N zcaron ; B 99 0 502 669 ;
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CharacterSet ExtendedRoman

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EncodingScheme AdobeStandardEncoding

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XHeight 426

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Descender -157

StdHW 51

StdVW 51

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C 36 ; WX 600 ; N dollar ; B 108 -126 596 662 ;

C 37 ; WX 600 ; N percent ; B 134 -15 599 622 ;

C 38 ; WX 600 ; N ampersand ; B 87 -15 580 543 ;

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C 41 ; WX 600 ; N parenright ; B 137 -108 396 622 ;
C 42 ; WX 600 ; N asterisk ; B 212 257 580 607 ;
C 43 ; WX 600 ; N plus ; B 129 44 580 470 ;
C 44 ; WX 600 ; N comma ; B 157 -112 370 122 ;
C 45 ; WX 600 ; N hyphen ; B 152 231 558 285 ;
C 46 ; WX 600 ; N period ; B 238 -15 382 109 ;
C 47 ; WX 600 ; N slash ; B 112 -80 604 629 ;
C 48 ; WX 600 ; N zero ; B 154 -15 575 622 ;
C 49 ; WX 600 ; N one ; B 98 0 515 622 ;
C 50 ; WX 600 ; N two ; B 70 0 568 622 ;
C 51 ; WX 600 ; N three ; B 82 -15 538 622 ;
C 52 ; WX 600 ; N four ; B 108 0 541 622 ;
C 53 ; WX 600 ; N five ; B 99 -15 589 607 ;
C 54 ; WX 600 ; N six ; B 155 -15 629 622 ;
C 55 ; WX 600 ; N seven ; B 182 0 612 607 ;
C 56 ; WX 600 ; N eight ; B 132 -15 588 622 ;
C 57 ; WX 600 ; N nine ; B 93 -15 574 622 ;
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C 62 ; WX 600 ; N greater ; B 85 42 599 472 ;
C 63 ; WX 600 ; N question ; B 222 -15 583 572 ;
C 64 ; WX 600 ; N at ; B 127 -15 582 622 ;
C 65 ; WX 600 ; N A ; B 3 0 607 562 ;
C 66 ; WX 600 ; N B ; B 43 0 616 562 ;
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C 90 ; WX 600 ; N Z ; B 86 0 610 562 ;
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C 92 ; WX 600 ; N backslash ; B 249 -80 468 629 ;
C 93 ; WX 600 ; N bracketright ; B 135 -108 463 622 ;
C 94 ; WX 600 ; N asciicircum ; B 175 354 587 622 ;
C 95 ; WX 600 ; N underscore ; B -27 -125 584 -75 ;
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C 196 ; WX 600 ; N tilde ; B 212 489 629 606 ;
C 197 ; WX 600 ; N macron ; B 232 525 600 565 ;
C 198 ; WX 600 ; N breve ; B 279 501 576 609 ;
C 199 ; WX 600 ; N dotaccent ; B 373 537 478 640 ;
C 200 ; WX 600 ; N dieresis ; B 272 537 579 640 ;
C 202 ; WX 600 ; N ring ; B 332 463 500 627 ;
C 203 ; WX 600 ; N cedilla ; B 197 -151 344 10 ;
C 205 ; WX 600 ; N hungarumlaut ; B 239 497 683 672 ;
C 206 ; WX 600 ; N ogonek ; B 189 -172 377 4 ;
C 207 ; WX 600 ; N caron ; B 262 492 614 669 ;
C 208 ; WX 600 ; N emdash ; B 49 231 661 285 ;
C 225 ; WX 600 ; N AE ; B 3 0 655 562 ;
C 227 ; WX 600 ; N ordfeminine ; B 209 249 512 580 ;
C 232 ; WX 600 ; N Lslash ; B 47 0 607 562 ;
C 233 ; WX 600 ; N Oslash ; B 94 -80 625 629 ;
C 234 ; WX 600 ; N OE ; B 59 0 672 562 ;
C 235 ; WX 600 ; N ordmasculine ; B 210 249 535 580 ;
C 241 ; WX 600 ; N ae ; B 41 -15 626 441 ;
C 245 ; WX 600 ; N dotlessi ; B 95 0 515 426 ;
C 248 ; WX 600 ; N lslash ; B 95 0 587 629 ;
C 249 ; WX 600 ; N oslash ; B 102 -80 588 506 ;
C 250 ; WX 600 ; N oe ; B 54 -15 615 441 ;
C 251 ; WX 600 ; N germandbls ; B 48 -15 617 629 ;
C -1 ; WX 600 ; N Idieresis ; B 96 0 623 753 ;
C -1 ; WX 600 ; N eacute ; B 106 -15 612 672 ;
C -1 ; WX 600 ; N abreve ; B 76 -15 576 609 ;

C -1 ; WX 600 ; N uhungarumlaut ; B 101 -15 723 672 ;
C -1 ; WX 600 ; N ecaron ; B 106 -15 614 669 ;
C -1 ; WX 600 ; N Ydieresis ; B 133 0 695 753 ;
C -1 ; WX 600 ; N divide ; B 136 48 573 467 ;
C -1 ; WX 600 ; N Yacute ; B 133 0 695 805 ;
C -1 ; WX 600 ; N Acircumflex ; B 3 0 607 787 ;
C -1 ; WX 600 ; N aacute ; B 76 -15 612 672 ;
C -1 ; WX 600 ; N Ucircumflex ; B 125 -18 702 787 ;
C -1 ; WX 600 ; N yacute ; B -4 -157 683 672 ;
C -1 ; WX 600 ; N scommaaccent ; B 78 -250 584 441 ;
C -1 ; WX 600 ; N ecircumflex ; B 106 -15 598 654 ;
C -1 ; WX 600 ; N Uring ; B 125 -18 702 760 ;
C -1 ; WX 600 ; N Udieresis ; B 125 -18 702 753 ;
C -1 ; WX 600 ; N aogonek ; B 76 -172 569 441 ;
C -1 ; WX 600 ; N Uacute ; B 125 -18 702 805 ;
C -1 ; WX 600 ; N uogonek ; B 101 -172 572 426 ;
C -1 ; WX 600 ; N Edieresis ; B 53 0 660 753 ;
C -1 ; WX 600 ; N Dcroat ; B 43 0 645 562 ;
C -1 ; WX 600 ; N commaaccent ; B 145 -250 323 -58 ;
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;
C -1 ; WX 600 ; N Emacron ; B 53 0 660 698 ;
C -1 ; WX 600 ; N ccaron ; B 106 -15 614 669 ;
C -1 ; WX 600 ; N aring ; B 76 -15 569 627 ;
C -1 ; WX 600 ; N Ncommaaccent ; B 7 -250 712 562 ;
C -1 ; WX 600 ; N lacute ; B 95 0 640 805 ;
C -1 ; WX 600 ; N agrave ; B 76 -15 569 672 ;
C -1 ; WX 600 ; N Tcommaaccent ; B 108 -250 665 562 ;
C -1 ; WX 600 ; N Cacute ; B 93 -18 655 805 ;
C -1 ; WX 600 ; N atilde ; B 76 -15 629 606 ;
C -1 ; WX 600 ; N Edotaccent ; B 53 0 660 753 ;
C -1 ; WX 600 ; N scaron ; B 78 -15 614 669 ;
C -1 ; WX 600 ; N scedilla ; B 78 -151 584 441 ;
C -1 ; WX 600 ; N iacute ; B 95 0 612 672 ;
C -1 ; WX 600 ; N lozenge ; B 94 0 519 706 ;
C -1 ; WX 600 ; N Rcaron ; B 38 0 642 802 ;
C -1 ; WX 600 ; N Gcommaaccent ; B 83 -250 645 580 ;
C -1 ; WX 600 ; N ucircumflex ; B 101 -15 572 654 ;
C -1 ; WX 600 ; N acircumflex ; B 76 -15 581 654 ;
C -1 ; WX 600 ; N Amacron ; B 3 0 607 698 ;
C -1 ; WX 600 ; N rcaron ; B 60 0 636 669 ;
C -1 ; WX 600 ; N ccedilla ; B 106 -151 614 441 ;
C -1 ; WX 600 ; N Zdotaccent ; B 86 0 610 753 ;
C -1 ; WX 600 ; N Thorn ; B 79 0 606 562 ;
C -1 ; WX 600 ; N Omacron ; B 94 -18 628 698 ;
C -1 ; WX 600 ; N Racute ; B 38 0 670 805 ;
C -1 ; WX 600 ; N Sacute ; B 76 -20 650 805 ;
C -1 ; WX 600 ; N dcaron ; B 85 -15 849 629 ;
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C -1 ; WX 600 ; N Ograve ; B 94 -18 625 805 ;
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C -1 ; WX 600 ; N Abreve ; B 3 0 607 732 ;
C -1 ; WX 600 ; N multiply ; B 103 43 607 470 ;
C -1 ; WX 600 ; N uacute ; B 101 -15 602 672 ;
C -1 ; WX 600 ; N Tcaron ; B 108 0 665 802 ;
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C -1 ; WX 600 ; N ydieresis ; B -4 -157 683 620 ;
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C -1 ; WX 600 ; N greaterequal ; B 98 0 594 710 ;
C -1 ; WX 600 ; N Eth ; B 43 0 645 562 ;
C -1 ; WX 600 ; N Ccedilla ; B 93 -151 658 580 ;
C -1 ; WX 600 ; N lcommaaccent ; B 95 -250 515 629 ;
C -1 ; WX 600 ; N tcaron ; B 167 -15 587 717 ;
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C -1 ; WX 600 ; N Aacute ; B 3 0 660 805 ;
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C -1 ; WX 600 ; N Delta ; B 6 0 598 688 ;
C -1 ; WX 600 ; N thorn ; B -24 -157 605 629 ;
C -1 ; WX 600 ; N twosuperior ; B 230 249 535 622 ;
C -1 ; WX 600 ; N Odieresis ; B 94 -18 625 753 ;
C -1 ; WX 600 ; N mu ; B 72 -157 572 426 ;
C -1 ; WX 600 ; N igrave ; B 95 0 515 672 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 102 -15 723 672 ;
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C -1 ; WX 600 ; N Lacute ; B 47 0 607 805 ;
C -1 ; WX 600 ; N trademark ; B 75 263 742 562 ;
C -1 ; WX 600 ; N edotaccent ; B 106 -15 598 620 ;
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C -1 ; WX 600 ; N Lcaron ; B 47 0 632 562 ;
C -1 ; WX 600 ; N onehalf ; B 65 -57 669 665 ;
C -1 ; WX 600 ; N lessequal ; B 98 0 645 710 ;
C -1 ; WX 600 ; N ocircumflex ; B 102 -15 588 654 ;
C -1 ; WX 600 ; N ntilde ; B 26 0 629 606 ;
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C -1 ; WX 600 ; N onequarter ; B 65 -57 674 665 ;
C -1 ; WX 600 ; N Scaron ; B 76 -20 672 802 ;
C -1 ; WX 600 ; N Scommaaccent ; B 76 -250 650 580 ;
C -1 ; WX 600 ; N Ohungarumlaut ; B 94 -18 751 805 ;
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C -1 ; WX 600 ; N radical ; B 85 -15 765 792 ;
C -1 ; WX 600 ; N Dcaron ; B 43 0 645 802 ;
C -1 ; WX 600 ; N rcommaaccent ; B 60 -250 636 441 ;
C -1 ; WX 600 ; N Ntilde ; B 7 -13 712 729 ;
C -1 ; WX 600 ; N otilde ; B 102 -15 629 606 ;
C -1 ; WX 600 ; N Rcommaaccent ; B 38 -250 598 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 47 -250 607 562 ;
C -1 ; WX 600 ; N Atilde ; B 3 0 655 729 ;
C -1 ; WX 600 ; N Aogonek ; B 3 -172 607 562 ;
C -1 ; WX 600 ; N Aring ; B 3 0 607 750 ;
C -1 ; WX 600 ; N Otilde ; B 94 -18 655 729 ;

C -1 ; WX 600 ; N zdotaccent ; B 99 0 593 620 ;
C -1 ; WX 600 ; N Ecaron ; B 53 0 660 802 ;
C -1 ; WX 600 ; N Iogonek ; B 96 -172 623 562 ;
C -1 ; WX 600 ; N kcommaaccent ; B 58 -250 633 629 ;
C -1 ; WX 600 ; N minus ; B 129 232 580 283 ;
C -1 ; WX 600 ; N Icircumflex ; B 96 0 623 787 ;
C -1 ; WX 600 ; N ncaron ; B 26 0 614 669 ;
C -1 ; WX 600 ; N tcommaaccent ; B 165 -250 561 561 ;
C -1 ; WX 600 ; N logicalnot ; B 155 108 591 369 ;
C -1 ; WX 600 ; N odieresis ; B 102 -15 588 620 ;
C -1 ; WX 600 ; N udieresis ; B 101 -15 575 620 ;
C -1 ; WX 600 ; N notequal ; B 43 -16 621 529 ;
C -1 ; WX 600 ; N gcommaaccent ; B 61 -157 657 708 ;
C -1 ; WX 600 ; N eth ; B 102 -15 639 629 ;
C -1 ; WX 600 ; N zcaron ; B 99 0 624 669 ;
C -1 ; WX 600 ; N ncommaaccent ; B 26 -250 585 441 ;
C -1 ; WX 600 ; N onesuperior ; B 231 249 491 622 ;
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Comment Creation Date: Mon Jun 23 16:28:46 1997

Comment UniqueID 43049

Comment VMusage 17529 79244

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FullName Courier Bold Oblique
FamilyName Courier
Weight Bold
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CharacterSet ExtendedRoman
FontBBox -57 -250 869 801
UnderlinePosition -100
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Version 003.000
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EncodingScheme AdobeStandardEncoding
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Ascender 629
Descender -157
StdHW 84
StdVW 106
StartCharMetrics 315
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C 36 ; WX 600 ; N dollar ; B 87 -126 630 666 ;
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C 42 ; WX 600 ; N asterisk ; B 179 219 598 601 ;
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C 47 ; WX 600 ; N slash ; B 90 -77 626 626 ;
C 48 ; WX 600 ; N zero ; B 135 -15 593 616 ;
C 49 ; WX 600 ; N one ; B 93 0 562 616 ;
C 50 ; WX 600 ; N two ; B 61 0 594 616 ;
C 51 ; WX 600 ; N three ; B 71 -15 571 616 ;
C 52 ; WX 600 ; N four ; B 81 0 559 616 ;
C 53 ; WX 600 ; N five ; B 77 -15 621 601 ;
C 54 ; WX 600 ; N six ; B 135 -15 652 616 ;
C 55 ; WX 600 ; N seven ; B 147 0 622 601 ;
C 56 ; WX 600 ; N eight ; B 115 -15 604 616 ;
C 57 ; WX 600 ; N nine ; B 75 -15 592 616 ;
C 58 ; WX 600 ; N colon ; B 205 -15 480 425 ;
C 59 ; WX 600 ; N semicolon ; B 99 -111 481 425 ;

C 60 ; WX 600 ; N less ; B 120 15 613 501 ;
C 61 ; WX 600 ; N equal ; B 96 118 614 398 ;
C 62 ; WX 600 ; N greater ; B 97 15 589 501 ;
C 63 ; WX 600 ; N question ; B 183 -14 592 580 ;
C 64 ; WX 600 ; N at ; B 65 -15 642 616 ;
C 65 ; WX 600 ; N A ; B -9 0 632 562 ;
C 66 ; WX 600 ; N B ; B 30 0 630 562 ;
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C 82 ; WX 600 ; N R ; B 24 0 617 562 ;
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C 84 ; WX 600 ; N T ; B 86 0 679 562 ;
C 85 ; WX 600 ; N U ; B 101 -18 716 562 ;
C 86 ; WX 600 ; N V ; B 84 0 733 562 ;
C 87 ; WX 600 ; N W ; B 79 0 738 562 ;
C 88 ; WX 600 ; N X ; B 12 0 690 562 ;
C 89 ; WX 600 ; N Y ; B 109 0 709 562 ;
C 90 ; WX 600 ; N Z ; B 62 0 637 562 ;
C 91 ; WX 600 ; N bracketleft ; B 223 -102 606 616 ;
C 92 ; WX 600 ; N backslash ; B 222 -77 496 626 ;
C 93 ; WX 600 ; N bracketright ; B 103 -102 486 616 ;
C 94 ; WX 600 ; N asciicircum ; B 171 250 556 616 ;
C 95 ; WX 600 ; N underscore ; B -27 -125 585 -75 ;
C 96 ; WX 600 ; N quoteleft ; B 297 277 487 562 ;
C 97 ; WX 600 ; N a ; B 61 -15 593 454 ;
C 98 ; WX 600 ; N b ; B 13 -15 636 626 ;
C 99 ; WX 600 ; N c ; B 81 -15 631 459 ;
C 100 ; WX 600 ; N d ; B 60 -15 645 626 ;
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C 103 ; WX 600 ; N g ; B 40 -146 674 454 ;
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C 112 ; WX 600 ; N p ; B -32 -142 622 454 ;
C 113 ; WX 600 ; N q ; B 60 -142 685 454 ;
C 114 ; WX 600 ; N r ; B 47 0 655 454 ;
C 115 ; WX 600 ; N s ; B 66 -17 608 459 ;
C 116 ; WX 600 ; N t ; B 118 -15 567 562 ;
C 117 ; WX 600 ; N u ; B 70 -15 592 439 ;
C 118 ; WX 600 ; N v ; B 70 0 695 439 ;
C 119 ; WX 600 ; N w ; B 53 0 712 439 ;
C 120 ; WX 600 ; N x ; B 6 0 671 439 ;
C 121 ; WX 600 ; N y ; B -21 -142 695 439 ;
C 122 ; WX 600 ; N z ; B 81 0 614 439 ;
C 123 ; WX 600 ; N braceleft ; B 203 -102 595 616 ;
C 124 ; WX 600 ; N bar ; B 201 -250 505 750 ;
C 125 ; WX 600 ; N braceright ; B 114 -102 506 616 ;
C 126 ; WX 600 ; N asciitilde ; B 120 153 590 356 ;
C 161 ; WX 600 ; N exclamdown ; B 196 -146 477 449 ;
C 162 ; WX 600 ; N cent ; B 121 -49 605 614 ;
C 163 ; WX 600 ; N sterling ; B 106 -28 650 611 ;
C 164 ; WX 600 ; N fraction ; B 22 -60 708 661 ;
C 165 ; WX 600 ; N yen ; B 98 0 710 562 ;
C 166 ; WX 600 ; N florin ; B -57 -131 702 616 ;
C 167 ; WX 600 ; N section ; B 74 -70 620 580 ;
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C 169 ; WX 600 ; N quotesingle ; B 303 277 493 562 ;
C 170 ; WX 600 ; N quotedblleft ; B 190 277 594 562 ;
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C 172 ; WX 600 ; N guilsinglleft ; B 195 70 545 446 ;
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C 177 ; WX 600 ; N endash ; B 108 203 602 313 ;
C 178 ; WX 600 ; N dagger ; B 175 -70 586 580 ;
C 179 ; WX 600 ; N daggerdbl ; B 121 -70 587 580 ;
C 180 ; WX 600 ; N periodcentered ; B 248 165 461 351 ;
C 182 ; WX 600 ; N paragraph ; B 61 -70 700 580 ;
C 183 ; WX 600 ; N bullet ; B 196 132 523 430 ;
C 184 ; WX 600 ; N quotesinglbase ; B 144 -142 458 143 ;
C 185 ; WX 600 ; N quotedblbase ; B 34 -142 560 143 ;
C 186 ; WX 600 ; N quotedblright ; B 119 277 645 562 ;
C 187 ; WX 600 ; N guillemotright ; B 71 70 647 446 ;
C 188 ; WX 600 ; N ellipsis ; B 35 -15 587 116 ;
C 189 ; WX 600 ; N perthousand ; B -45 -15 743 616 ;
C 191 ; WX 600 ; N questiondown ; B 100 -146 509 449 ;
C 193 ; WX 600 ; N grave ; B 272 508 503 661 ;

C 194 ; WX 600 ; N acute ; B 312 508 609 661 ;
C 195 ; WX 600 ; N circumflex ; B 212 483 607 657 ;
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C 199 ; WX 600 ; N dotaccent ; B 348 498 493 638 ;
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C 202 ; WX 600 ; N ring ; B 319 481 528 678 ;
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C 205 ; WX 600 ; N hungarumlaut ; B 171 488 729 661 ;
C 206 ; WX 600 ; N ogonek ; B 143 -199 367 0 ;
C 207 ; WX 600 ; N caron ; B 238 493 633 667 ;
C 208 ; WX 600 ; N emdash ; B 33 203 677 313 ;
C 225 ; WX 600 ; N AE ; B -29 0 708 562 ;
C 227 ; WX 600 ; N ordfeminine ; B 188 196 526 580 ;
C 232 ; WX 600 ; N Lslash ; B 39 0 636 562 ;
C 233 ; WX 600 ; N Oslash ; B 48 -22 673 584 ;
C 234 ; WX 600 ; N OE ; B 26 0 701 562 ;
C 235 ; WX 600 ; N ordmasculine ; B 188 196 543 580 ;
C 241 ; WX 600 ; N ae ; B 21 -15 652 454 ;
C 245 ; WX 600 ; N dotlessi ; B 77 0 546 439 ;
C 248 ; WX 600 ; N lslash ; B 77 0 587 626 ;
C 249 ; WX 600 ; N oslash ; B 54 -24 638 463 ;
C 250 ; WX 600 ; N oe ; B 18 -15 662 454 ;
C 251 ; WX 600 ; N germandbls ; B 22 -15 629 626 ;
C -1 ; WX 600 ; N Idieresis ; B 77 0 643 761 ;
C -1 ; WX 600 ; N eacute ; B 81 -15 609 661 ;
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C -1 ; WX 600 ; N uhungarumlaut ; B 70 -15 769 661 ;
C -1 ; WX 600 ; N ecaron ; B 81 -15 633 667 ;
C -1 ; WX 600 ; N Ydieresis ; B 109 0 709 761 ;
C -1 ; WX 600 ; N divide ; B 114 16 596 500 ;
C -1 ; WX 600 ; N Yacute ; B 109 0 709 784 ;
C -1 ; WX 600 ; N Acircumflex ; B -9 0 632 780 ;
C -1 ; WX 600 ; N aacute ; B 61 -15 609 661 ;
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C -1 ; WX 600 ; N yacute ; B -21 -142 695 661 ;
C -1 ; WX 600 ; N scommaaccent ; B 66 -250 608 459 ;
C -1 ; WX 600 ; N ecircumflex ; B 81 -15 607 657 ;
C -1 ; WX 600 ; N Uring ; B 101 -18 716 801 ;
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C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;

C -1 ; WX 600 ; N Emacron ; B 25 0 670 708 ;
C -1 ; WX 600 ; N ccaron ; B 81 -15 633 667 ;
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C -1 ; WX 600 ; N lacute ; B 77 0 639 801 ;
C -1 ; WX 600 ; N agrave ; B 61 -15 593 661 ;
C -1 ; WX 600 ; N Tcommaaccent ; B 86 -250 679 562 ;
C -1 ; WX 600 ; N Cacute ; B 74 -18 675 784 ;
C -1 ; WX 600 ; N atilde ; B 61 -15 643 636 ;
C -1 ; WX 600 ; N Edotaccent ; B 25 0 670 761 ;
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C -1 ; WX 600 ; N scedilla ; B 66 -206 608 459 ;
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C -1 ; WX 600 ; N ucircumflex ; B 70 -15 597 657 ;
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C -1 ; WX 600 ; N Amacron ; B -9 0 633 708 ;
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C -1 ; WX 600 ; N dcaron ; B 60 -15 861 626 ;
C -1 ; WX 600 ; N Umacron ; B 101 -18 716 708 ;
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C -1 ; WX 600 ; N threesuperior ; B 193 222 526 616 ;
C -1 ; WX 600 ; N Ograve ; B 74 -18 645 784 ;
C -1 ; WX 600 ; N Agrave ; B -9 0 632 784 ;
C -1 ; WX 600 ; N Abreve ; B -9 0 684 784 ;
C -1 ; WX 600 ; N multiply ; B 104 39 606 478 ;
C -1 ; WX 600 ; N uacute ; B 70 -15 599 661 ;
C -1 ; WX 600 ; N Tcaron ; B 86 0 679 790 ;
C -1 ; WX 600 ; N partialdiff ; B 91 -38 627 728 ;
C -1 ; WX 600 ; N ydieresis ; B -21 -142 695 638 ;
C -1 ; WX 600 ; N Nacute ; B 8 -12 730 784 ;
C -1 ; WX 600 ; N icircumflex ; B 77 0 577 657 ;
C -1 ; WX 600 ; N Ecircumflex ; B 25 0 670 780 ;
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C -1 ; WX 600 ; N tcaron ; B 118 -15 627 703 ;
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C -1 ; WX 600 ; N idieresis ; B 77 0 561 618 ;
C -1 ; WX 600 ; N Ocircumflex ; B 74 -18 645 780 ;
C -1 ; WX 600 ; N Ugrave ; B 101 -18 716 784 ;
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;
C -1 ; WX 600 ; N thorn ; B -32 -142 622 626 ;
C -1 ; WX 600 ; N twosuperior ; B 191 230 542 616 ;
C -1 ; WX 600 ; N Odieresis ; B 74 -18 645 761 ;
C -1 ; WX 600 ; N mu ; B 49 -142 592 439 ;
C -1 ; WX 600 ; N igrave ; B 77 0 546 661 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 71 -15 809 661 ;
C -1 ; WX 600 ; N Eogonek ; B 25 -199 670 562 ;
C -1 ; WX 600 ; N dcroat ; B 60 -15 712 626 ;
C -1 ; WX 600 ; N threequarters ; B 8 -60 699 661 ;
C -1 ; WX 600 ; N Scedilla ; B 54 -206 673 582 ;
C -1 ; WX 600 ; N lcaron ; B 77 0 731 626 ;
C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 692 562 ;
C -1 ; WX 600 ; N Lacute ; B 39 0 636 784 ;
C -1 ; WX 600 ; N trademark ; B 86 230 869 562 ;
C -1 ; WX 600 ; N edotaccent ; B 81 -15 605 638 ;
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C -1 ; WX 600 ; N lessequal ; B 26 0 671 696 ;
C -1 ; WX 600 ; N ocircumflex ; B 71 -15 622 657 ;
C -1 ; WX 600 ; N ntilde ; B 18 0 643 636 ;
C -1 ; WX 600 ; N Uhungarumlaut ; B 101 -18 805 784 ;
C -1 ; WX 600 ; N Eacute ; B 25 0 670 784 ;
C -1 ; WX 600 ; N emacron ; B 81 -15 637 585 ;
C -1 ; WX 600 ; N gbreve ; B 40 -146 674 661 ;
C -1 ; WX 600 ; N onequarter ; B 13 -60 707 661 ;
C -1 ; WX 600 ; N Scaron ; B 54 -22 689 790 ;
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C -1 ; WX 600 ; N ograve ; B 71 -15 622 661 ;
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C -1 ; WX 600 ; N Dcaron ; B 30 0 664 790 ;
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 655 454 ;
C -1 ; WX 600 ; N Ntilde ; B 8 -12 730 759 ;
C -1 ; WX 600 ; N otilde ; B 71 -15 643 636 ;
C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 617 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 636 562 ;
C -1 ; WX 600 ; N Atilde ; B -9 0 669 759 ;
C -1 ; WX 600 ; N Aogonek ; B -9 -199 632 562 ;
C -1 ; WX 600 ; N Aring ; B -9 0 632 801 ;
C -1 ; WX 600 ; N Otilde ; B 74 -18 669 759 ;
C -1 ; WX 600 ; N zdotaccent ; B 81 0 614 638 ;
C -1 ; WX 600 ; N Ecaron ; B 25 0 670 790 ;
C -1 ; WX 600 ; N Iogonek ; B 77 -199 643 562 ;
C -1 ; WX 600 ; N kcommaaccent ; B 33 -250 643 626 ;
C -1 ; WX 600 ; N minus ; B 114 203 596 313 ;
C -1 ; WX 600 ; N Icircumflex ; B 77 0 643 780 ;
C -1 ; WX 600 ; N ncaron ; B 18 0 633 667 ;
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C -1 ; WX 600 ; N gcommaaccent ; B 40 -146 674 714 ;
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EncodingScheme AdobeStandardEncoding

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XHeight 461

Ascender 683

Descender -217

StdHW 44

StdVW 139

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C 36 ; WX 500 ; N dollar ; B 29 -99 472 750 ;

C 37 ; WX 1000 ; N percent ; B 124 -14 877 692 ;

C 38 ; WX 833 ; N ampersand ; B 62 -16 787 691 ;

C 39 ; WX 333 ; N quoteright ; B 79 356 263 691 ;

C 40 ; WX 333 ; N parenleft ; B 46 -168 306 694 ;

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C 42 ; WX 500 ; N asterisk ; B 56 255 447 691 ;

C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;

C 44 ; WX 250 ; N comma ; B 39 -180 223 155 ;

C 45 ; WX 333 ; N hyphen ; B 44 171 287 287 ;

C 46 ; WX 250 ; N period ; B 41 -13 210 156 ;

C 47 ; WX 278 ; N slash ; B -24 -19 302 691 ;
C 48 ; WX 500 ; N zero ; B 24 -13 476 688 ;
C 49 ; WX 500 ; N one ; B 65 0 442 688 ;
C 50 ; WX 500 ; N two ; B 17 0 478 688 ;
C 51 ; WX 500 ; N three ; B 16 -14 468 688 ;
C 52 ; WX 500 ; N four ; B 19 0 475 688 ;
C 53 ; WX 500 ; N five ; B 22 -8 470 676 ;
C 54 ; WX 500 ; N six ; B 28 -13 475 688 ;
C 55 ; WX 500 ; N seven ; B 17 0 477 676 ;
C 56 ; WX 500 ; N eight ; B 28 -13 472 688 ;
C 57 ; WX 500 ; N nine ; B 26 -13 473 688 ;
C 58 ; WX 333 ; N colon ; B 82 -13 251 472 ;
C 59 ; WX 333 ; N semicolon ; B 82 -180 266 472 ;
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;
C 63 ; WX 500 ; N question ; B 57 -13 445 689 ;
C 64 ; WX 930 ; N at ; B 108 -19 822 691 ;
C 65 ; WX 722 ; N A ; B 9 0 689 690 ;
C 66 ; WX 667 ; N B ; B 16 0 619 676 ;
C 67 ; WX 722 ; N C ; B 49 -19 687 691 ;
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C 70 ; WX 611 ; N F ; B 16 0 583 676 ;
C 71 ; WX 778 ; N G ; B 37 -19 755 691 ;
C 72 ; WX 778 ; N H ; B 21 0 759 676 ;
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C 74 ; WX 500 ; N J ; B 3 -96 479 676 ;
C 75 ; WX 778 ; N K ; B 30 0 769 676 ;
C 76 ; WX 667 ; N L ; B 19 0 638 676 ;
C 77 ; WX 944 ; N M ; B 14 0 921 676 ;
C 78 ; WX 722 ; N N ; B 16 -18 701 676 ;
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C 82 ; WX 722 ; N R ; B 26 0 715 676 ;
C 83 ; WX 556 ; N S ; B 35 -19 513 692 ;
C 84 ; WX 667 ; N T ; B 31 0 636 676 ;
C 85 ; WX 722 ; N U ; B 16 -19 701 676 ;
C 86 ; WX 722 ; N V ; B 16 -18 701 676 ;
C 87 ; WX 1000 ; N W ; B 19 -15 981 676 ;
C 88 ; WX 722 ; N X ; B 16 0 699 676 ;
C 89 ; WX 722 ; N Y ; B 15 0 699 676 ;
C 90 ; WX 667 ; N Z ; B 28 0 634 676 ;
C 91 ; WX 333 ; N bracketleft ; B 67 -149 301 678 ;
C 92 ; WX 278 ; N backslash ; B -25 -19 303 691 ;
C 93 ; WX 333 ; N bracketright ; B 32 -149 266 678 ;
C 94 ; WX 581 ; N asciicircum ; B 73 311 509 676 ;

C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 70 356 254 691 ;
C 97 ; WX 500 ; N a ; B 25 -14 488 473 ;
C 98 ; WX 556 ; N b ; B 17 -14 521 676 ;
C 99 ; WX 444 ; N c ; B 25 -14 430 473 ;
C 100 ; WX 556 ; N d ; B 25 -14 534 676 ;
C 101 ; WX 444 ; N e ; B 25 -14 426 473 ;
C 102 ; WX 333 ; N f ; B 14 0 389 691 ; L i fi ; L l fl ;
C 103 ; WX 500 ; N g ; B 28 -206 483 473 ;
C 104 ; WX 556 ; N h ; B 16 0 534 676 ;
C 105 ; WX 278 ; N i ; B 16 0 255 691 ;
C 106 ; WX 333 ; N j ; B -57 -203 263 691 ;
C 107 ; WX 556 ; N k ; B 22 0 543 676 ;
C 108 ; WX 278 ; N l ; B 16 0 255 676 ;
C 109 ; WX 833 ; N m ; B 16 0 814 473 ;
C 110 ; WX 556 ; N n ; B 21 0 539 473 ;
C 111 ; WX 500 ; N o ; B 25 -14 476 473 ;
C 112 ; WX 556 ; N p ; B 19 -205 524 473 ;
C 113 ; WX 556 ; N q ; B 34 -205 536 473 ;
C 114 ; WX 444 ; N r ; B 29 0 434 473 ;
C 115 ; WX 389 ; N s ; B 25 -14 361 473 ;
C 116 ; WX 333 ; N t ; B 20 -12 332 630 ;
C 117 ; WX 556 ; N u ; B 16 -14 537 461 ;
C 118 ; WX 500 ; N v ; B 21 -14 485 461 ;
C 119 ; WX 722 ; N w ; B 23 -14 707 461 ;
C 120 ; WX 500 ; N x ; B 12 0 484 461 ;
C 121 ; WX 500 ; N y ; B 16 -205 480 461 ;
C 122 ; WX 444 ; N z ; B 21 0 420 461 ;
C 123 ; WX 394 ; N braceleft ; B 22 -175 340 698 ;
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;
C 125 ; WX 394 ; N braceright ; B 54 -175 372 698 ;
C 126 ; WX 520 ; N asciitilde ; B 29 173 491 333 ;
C 161 ; WX 333 ; N exclamdown ; B 82 -203 252 501 ;
C 162 ; WX 500 ; N cent ; B 53 -140 458 588 ;
C 163 ; WX 500 ; N sterling ; B 21 -14 477 684 ;
C 164 ; WX 167 ; N fraction ; B -168 -12 329 688 ;
C 165 ; WX 500 ; N yen ; B -64 0 547 676 ;
C 166 ; WX 500 ; N florin ; B 0 -155 498 706 ;
C 167 ; WX 500 ; N section ; B 57 -132 443 691 ;
C 168 ; WX 500 ; N currency ; B -26 61 526 613 ;
C 169 ; WX 278 ; N quotesingle ; B 75 404 204 691 ;
C 170 ; WX 500 ; N quotedblleft ; B 32 356 486 691 ;
C 171 ; WX 500 ; N guillemotleft ; B 23 36 473 415 ;
C 172 ; WX 333 ; N guilsinglleft ; B 51 36 305 415 ;
C 173 ; WX 333 ; N guilsinglright ; B 28 36 282 415 ;
C 174 ; WX 556 ; N fi ; B 14 0 536 691 ;
C 175 ; WX 556 ; N fl ; B 14 0 536 691 ;
C 177 ; WX 500 ; N endash ; B 0 181 500 271 ;

C 178 ; WX 500 ; N dagger ; B 47 -134 453 691 ;
C 179 ; WX 500 ; N daggerdbl ; B 45 -132 456 691 ;
C 180 ; WX 250 ; N periodcentered ; B 41 248 210 417 ;
C 182 ; WX 540 ; N paragraph ; B 0 -186 519 676 ;
C 183 ; WX 350 ; N bullet ; B 35 198 315 478 ;
C 184 ; WX 333 ; N quotesinglbase ; B 79 -180 263 155 ;
C 185 ; WX 500 ; N quotedblbase ; B 14 -180 468 155 ;
C 186 ; WX 500 ; N quotedblright ; B 14 356 468 691 ;
C 187 ; WX 500 ; N guillemotright ; B 27 36 477 415 ;
C 188 ; WX 1000 ; N ellipsis ; B 82 -13 917 156 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -29 995 706 ;
C 191 ; WX 500 ; N questiondown ; B 55 -201 443 501 ;
C 193 ; WX 333 ; N grave ; B 8 528 246 713 ;
C 194 ; WX 333 ; N acute ; B 86 528 324 713 ;
C 195 ; WX 333 ; N circumflex ; B -2 528 335 704 ;
C 196 ; WX 333 ; N tilde ; B -16 547 349 674 ;
C 197 ; WX 333 ; N macron ; B 1 565 331 637 ;
C 198 ; WX 333 ; N breve ; B 15 528 318 691 ;
C 199 ; WX 333 ; N dotaccent ; B 103 536 258 691 ;
C 200 ; WX 333 ; N dieresis ; B -2 537 335 667 ;
C 202 ; WX 333 ; N ring ; B 60 527 273 740 ;
C 203 ; WX 333 ; N cedilla ; B 68 -218 294 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B -13 528 425 713 ;
C 206 ; WX 333 ; N ogonek ; B 90 -193 319 24 ;
C 207 ; WX 333 ; N caron ; B -2 528 335 704 ;
C 208 ; WX 1000 ; N emdash ; B 0 181 1000 271 ;
C 225 ; WX 1000 ; N AE ; B 4 0 951 676 ;
C 227 ; WX 300 ; N ordfeminine ; B -1 397 301 688 ;
C 232 ; WX 667 ; N Lslash ; B 19 0 638 676 ;
C 233 ; WX 778 ; N Oslash ; B 35 -74 743 737 ;
C 234 ; WX 1000 ; N OE ; B 22 -5 981 684 ;
C 235 ; WX 330 ; N ordmasculine ; B 18 397 312 688 ;
C 241 ; WX 722 ; N ae ; B 33 -14 693 473 ;
C 245 ; WX 278 ; N dotlessi ; B 16 0 255 461 ;
C 248 ; WX 278 ; N lslash ; B -22 0 303 676 ;
C 249 ; WX 500 ; N oslash ; B 25 -92 476 549 ;
C 250 ; WX 722 ; N oe ; B 22 -14 696 473 ;
C 251 ; WX 556 ; N germandbls ; B 19 -12 517 691 ;
C -1 ; WX 389 ; N Idieresis ; B 20 0 370 877 ;
C -1 ; WX 444 ; N eacute ; B 25 -14 426 713 ;
C -1 ; WX 500 ; N abreve ; B 25 -14 488 691 ;
C -1 ; WX 556 ; N uhungarumlaut ; B 16 -14 557 713 ;
C -1 ; WX 444 ; N ecaron ; B 25 -14 426 704 ;
C -1 ; WX 722 ; N Ydieresis ; B 15 0 699 877 ;
C -1 ; WX 570 ; N divide ; B 33 -31 537 537 ;
C -1 ; WX 722 ; N Yacute ; B 15 0 699 923 ;
C -1 ; WX 722 ; N Acircumflex ; B 9 0 689 914 ;
C -1 ; WX 500 ; N aacute ; B 25 -14 488 713 ;

C -1 ; WX 722 ; N Ucircumflex ; B 16 -19 701 914 ;
C -1 ; WX 500 ; N yacute ; B 16 -205 480 713 ;
C -1 ; WX 389 ; N scommaaccent ; B 25 -218 361 473 ;
C -1 ; WX 444 ; N ecircumflex ; B 25 -14 426 704 ;
C -1 ; WX 722 ; N Uring ; B 16 -19 701 935 ;
C -1 ; WX 722 ; N Udieresis ; B 16 -19 701 877 ;
C -1 ; WX 500 ; N aogonek ; B 25 -193 504 473 ;
C -1 ; WX 722 ; N Uacute ; B 16 -19 701 923 ;
C -1 ; WX 556 ; N uogonek ; B 16 -193 539 461 ;
C -1 ; WX 667 ; N Edieresis ; B 16 0 641 877 ;
C -1 ; WX 722 ; N Dcroat ; B 6 0 690 676 ;
C -1 ; WX 250 ; N commaaccent ; B 47 -218 203 -50 ;
C -1 ; WX 747 ; N copyright ; B 26 -19 721 691 ;
C -1 ; WX 667 ; N Emacron ; B 16 0 641 847 ;
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C -1 ; WX 500 ; N aring ; B 25 -14 488 740 ;
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C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;
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C -1 ; WX 444 ; N edieresis ; B 25 -14 426 667 ;
C -1 ; WX 444 ; N cacute ; B 25 -14 430 713 ;
C -1 ; WX 556 ; N nacute ; B 21 0 539 713 ;
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C -1 ; WX 389 ; N Iacute ; B 20 0 370 923 ;
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;
C -1 ; WX 747 ; N registered ; B 26 -19 721 691 ;
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C -1 ; WX 500 ; N omacron ; B 25 -14 476 637 ;
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C -1 ; WX 278 ; N lcommaaccent ; B 16 -218 255 676 ;
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C -1 ; WX 444 ; N eogonek ; B 25 -193 426 473 ;
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C -1 ; WX 778 ; N Oacute ; B 35 -19 743 923 ;
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C -1 ; WX 389 ; N sacute ; B 25 -14 361 713 ;
C -1 ; WX 278 ; N idieresis ; B -37 0 300 667 ;
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C -1 ; WX 722 ; N Ugrave ; B 16 -19 701 923 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 556 ; N thorn ; B 19 -205 524 676 ;
C -1 ; WX 300 ; N twosuperior ; B 0 275 300 688 ;
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C -1 ; WX 556 ; N mu ; B 33 -206 536 461 ;

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C -1 ; WX 667 ; N Eogonek ; B 16 -193 644 676 ;
C -1 ; WX 556 ; N dcroat ; B 25 -14 534 676 ;
C -1 ; WX 750 ; N threequarters ; B 23 -12 733 688 ;
C -1 ; WX 556 ; N Scedilla ; B 35 -218 513 692 ;
C -1 ; WX 394 ; N lcaron ; B 16 0 412 682 ;
C -1 ; WX 778 ; N Kcommaaccent ; B 30 -218 769 676 ;
C -1 ; WX 667 ; N Lacute ; B 19 0 638 923 ;
C -1 ; WX 1000 ; N trademark ; B 24 271 977 676 ;
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C -1 ; WX 389 ; N Imacron ; B 20 0 370 847 ;
C -1 ; WX 667 ; N Lcaron ; B 19 0 652 682 ;
C -1 ; WX 750 ; N onehalf ; B -7 -12 775 688 ;
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C -1 ; WX 722 ; N Atilde ; B 9 0 689 884 ;
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C -1 ; WX 722 ; N Aring ; B 9 0 689 935 ;
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EndCharMetrics

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StartKernPairs 2242

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KPX A Omacron -45

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KPX A Otilde -45

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KPX A Tcaron -95

KPX A Tcommaaccent -95

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KPX A Uacute -50

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KPX rcaron comma -92
KPX rcaron e -18
KPX rcaron eacute -18
KPX rcaron ecaron -18
KPX rcaron ecircumflex -18
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KPX rcaron edotaccent -18
KPX rcaron egrave -18
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KPX rcaron eogonek -18
KPX rcaron g -10
KPX rcaron gbreve -10
KPX rcaron gcommaaccent -10
KPX rcaron hyphen -37
KPX rcaron n -15
KPX rcaron nacute -15
KPX rcaron ncaron -15
KPX rcaron ncommaaccent -15
KPX rcaron ntilde -15
KPX rcaron o -18
KPX rcaron oacute -18
KPX rcaron ocircumflex -18
KPX rcaron odieresis -18
KPX rcaron ograve -18
KPX rcaron ohungarumlaut -18
KPX rcaron omacron -18
KPX rcaron oslash -18
KPX rcaron otilde -18
KPX rcaron p -10
KPX rcaron period -100
KPX rcaron q -18
KPX rcaron v -10
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StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 12:49:17 1997

Comment UniqueID 43068

Comment VMusage 43909 54934
FontName Times-Roman
FullName Times Roman
FamilyName Times
Weight Roman
ItalicAngle 0
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -168 -218 1000 898
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
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is a trademark of Linotype-Hell AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 662
XHeight 450
Ascender 683
Descender -217
StdHW 28
StdVW 84
StartCharMetrics 315
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C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;
C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;
C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;
C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;
C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;
C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;
C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;
C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;
C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;
C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;
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C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;
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C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;
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C 49 ; WX 500 ; N one ; B 111 0 394 676 ;
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C 56 ; WX 500 ; N eight ; B 56 -14 445 676 ;
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C 59 ; WX 278 ; N semicolon ; B 80 -141 219 459 ;
C 60 ; WX 564 ; N less ; B 28 -8 536 514 ;
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C 62 ; WX 564 ; N greater ; B 28 -8 536 514 ;
C 63 ; WX 444 ; N question ; B 68 -8 414 676 ;
C 64 ; WX 921 ; N at ; B 116 -14 809 676 ;
C 65 ; WX 722 ; N A ; B 15 0 706 674 ;
C 66 ; WX 667 ; N B ; B 17 0 593 662 ;
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C 91 ; WX 333 ; N bracketleft ; B 88 -156 299 662 ;
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C 122 ; WX 444 ; N z ; B 27 0 418 450 ;
C 123 ; WX 480 ; N braceleft ; B 100 -181 350 680 ;
C 124 ; WX 200 ; N bar ; B 67 -218 133 782 ;
C 125 ; WX 480 ; N braceright ; B 130 -181 380 680 ;
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;
C 161 ; WX 333 ; N exclamdown ; B 97 -218 205 467 ;
C 162 ; WX 500 ; N cent ; B 53 -138 448 579 ;
C 163 ; WX 500 ; N sterling ; B 12 -8 490 676 ;
C 164 ; WX 167 ; N fraction ; B -168 -14 331 676 ;
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C -1 ; WX 556 ; N Thorn ; B 16 0 542 662 ;
C -1 ; WX 722 ; N Omacron ; B 34 -14 688 813 ;
C -1 ; WX 667 ; N Racute ; B 17 0 659 890 ;
C -1 ; WX 556 ; N Sacute ; B 42 -14 491 890 ;
C -1 ; WX 588 ; N dcaron ; B 27 -10 589 695 ;
C -1 ; WX 722 ; N Umacron ; B 14 -14 705 813 ;
C -1 ; WX 500 ; N uring ; B 9 -10 479 711 ;
C -1 ; WX 300 ; N threesuperior ; B 15 262 291 676 ;
C -1 ; WX 722 ; N Ograve ; B 34 -14 688 890 ;
C -1 ; WX 722 ; N Agrave ; B 15 0 706 890 ;
C -1 ; WX 722 ; N Abreve ; B 15 0 706 876 ;
C -1 ; WX 564 ; N multiply ; B 38 8 527 497 ;
C -1 ; WX 500 ; N uacute ; B 9 -10 479 678 ;
C -1 ; WX 611 ; N Tcaron ; B 17 0 593 886 ;
C -1 ; WX 476 ; N partialdiff ; B 17 -38 459 710 ;
C -1 ; WX 500 ; N ydieresis ; B 14 -218 475 623 ;
C -1 ; WX 722 ; N Nacute ; B 12 -11 707 890 ;
C -1 ; WX 278 ; N icircumflex ; B -16 0 295 674 ;
C -1 ; WX 611 ; N Ecircumflex ; B 12 0 597 886 ;
C -1 ; WX 444 ; N adieresis ; B 37 -10 442 623 ;
C -1 ; WX 444 ; N edieresis ; B 25 -10 424 623 ;
C -1 ; WX 444 ; N cacute ; B 25 -10 413 678 ;
C -1 ; WX 500 ; N nacute ; B 16 0 485 678 ;
C -1 ; WX 500 ; N umacron ; B 9 -10 479 601 ;

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C -1 ; WX 333 ; N Iacute ; B 18 0 317 890 ;
C -1 ; WX 564 ; N plusminus ; B 30 0 534 506 ;
C -1 ; WX 200 ; N brokenbar ; B 67 -143 133 707 ;
C -1 ; WX 760 ; N registered ; B 38 -14 722 676 ;
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C -1 ; WX 333 ; N Idotaccent ; B 18 0 315 835 ;
C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;
C -1 ; WX 611 ; N Egrave ; B 12 0 597 890 ;
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C -1 ; WX 500 ; N omacron ; B 29 -10 470 601 ;
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C -1 ; WX 611 ; N Zcaron ; B 9 0 597 886 ;
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C -1 ; WX 722 ; N Eth ; B 16 0 685 662 ;
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C -1 ; WX 278 ; N lcommaaccent ; B 19 -218 257 683 ;
C -1 ; WX 326 ; N tcaron ; B 13 -10 318 722 ;
C -1 ; WX 444 ; N eogonek ; B 25 -165 424 460 ;
C -1 ; WX 722 ; N Uogonek ; B 14 -165 705 662 ;
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C -1 ; WX 722 ; N Adieresis ; B 15 0 706 835 ;
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C -1 ; WX 444 ; N zacute ; B 27 0 418 678 ;
C -1 ; WX 278 ; N iogonek ; B 16 -165 265 683 ;
C -1 ; WX 722 ; N Oacute ; B 34 -14 688 890 ;
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C -1 ; WX 278 ; N igrave ; B -8 0 253 678 ;
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C -1 ; WX 611 ; N Eogonek ; B 12 -165 597 662 ;
C -1 ; WX 500 ; N dcroat ; B 27 -10 500 683 ;
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C -1 ; WX 556 ; N Scedilla ; B 42 -215 491 676 ;
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C -1 ; WX 611 ; N Lcaron ; B 12 0 598 676 ;
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C -1 ; WX 549 ; N lessequal ; B 26 0 523 666 ;
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C -1 ; WX 722 ; N Uhungarumlaut ; B 14 -14 705 890 ;
C -1 ; WX 611 ; N Eacute ; B 12 0 597 890 ;
C -1 ; WX 444 ; N emacron ; B 25 -10 424 601 ;
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C -1 ; WX 556 ; N Scaron ; B 42 -14 491 886 ;
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C -1 ; WX 564 ; N minus ; B 30 220 534 286 ;
C -1 ; WX 333 ; N Icircumflex ; B 11 0 322 886 ;
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C -1 ; WX 564 ; N logicalnot ; B 30 108 534 386 ;
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C -1 ; WX 300 ; N onesuperior ; B 57 270 248 676 ;
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C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

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StartKernPairs 2073

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KPX A Omacron -55

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KPX A Otilde -55

KPX A Q -55

KPX A T -111

KPX A Tcaron -111

KPX A Tcommaaccent -111

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KPX A Uacute -55

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KPX A Uogonek -55

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KPX A Yacute -105

KPX A Ydieresis -105

KPX A quoteright -111

KPX A v -74

KPX A w -92

KPX A y -92

KPX A yacute -92

KPX A ydieresis -92

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KPX space Aogonek -55
KPX space Aring -55
KPX space Atilde -55
KPX space T -18
KPX space Tcaron -18
KPX space Tcommaaccent -18
KPX space V -50
KPX space W -30
KPX space Y -90
KPX space Yacute -90
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KPX v a -25
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KPX v abreve -25
KPX v acircumflex -25
KPX v adieresis -25

KPX v agrave -25
KPX v amacron -25
KPX v aogonek -25
KPX v aring -25
KPX v atilde -25
KPX v comma -65
KPX v e -15
KPX v eacute -15
KPX v ecaron -15
KPX v ecircumflex -15
KPX v edieresis -15
KPX v edotaccent -15
KPX v egrave -15
KPX v emacron -15
KPX v eogonek -15
KPX v o -20
KPX v oacute -20
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KPX v ograve -20
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KPX v omacron -20
KPX v oslash -20
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KPX w a -10
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KPX w aogonek -10
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KPX w atilde -10
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KPX w period -65
KPX x e -15
KPX x eacute -15

KPX x ecaron -15
KPX x ecircumflex -15
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KPX x edotaccent -15
KPX x egrave -15
KPX x emacron -15
KPX x eogonek -15
KPX y comma -65
KPX y period -65
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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Times-Roman.afm

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```
#####  
# Copyright (C) The Apache Software Foundation. All rights reserved.    #  
# ----- #  
# This software is published under the terms of the Apache Software License #  
# version 1.1, a copy of which has been included with this distribution in #  
# the LICENSE file.                                                    #  
#####
```

```
# This file registers the example Bridge extension as a service for the  
# Bridge context.  
# org.apache.batik.apps.svgbrowser.XMLInputHandler
```

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-

INF/services/org.apache.batik.apps.svgbrowser.SquiggleInputHandler

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StartFontMetrics 4.1

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Comment Creation Date: Mon Jun 23 16:28:00 1997

Comment UniqueID 43048

Comment VMusage 41139 52164

FontName Courier-Bold

FullName Courier Bold

FamilyName Courier

Weight Bold

ItalicAngle 0

IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -113 -250 749 801
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
Notice Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.
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XHeight 439
Ascender 629
Descender -157
StdHW 84
StdVW 106
StartCharMetrics 315
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C 34 ; WX 600 ; N quotedbl ; B 135 277 465 562 ;
C 35 ; WX 600 ; N numbersign ; B 56 -45 544 651 ;
C 36 ; WX 600 ; N dollar ; B 82 -126 519 666 ;
C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;
C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;
C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;
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C 42 ; WX 600 ; N asterisk ; B 91 219 509 601 ;
C 43 ; WX 600 ; N plus ; B 71 39 529 478 ;
C 44 ; WX 600 ; N comma ; B 123 -111 393 174 ;
C 45 ; WX 600 ; N hyphen ; B 100 203 500 313 ;
C 46 ; WX 600 ; N period ; B 192 -15 408 171 ;
C 47 ; WX 600 ; N slash ; B 98 -77 502 626 ;
C 48 ; WX 600 ; N zero ; B 87 -15 513 616 ;
C 49 ; WX 600 ; N one ; B 81 0 539 616 ;
C 50 ; WX 600 ; N two ; B 61 0 499 616 ;
C 51 ; WX 600 ; N three ; B 63 -15 501 616 ;
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C 61 ; WX 600 ; N equal ; B 71 118 529 398 ;
C 62 ; WX 600 ; N greater ; B 77 15 534 501 ;
C 63 ; WX 600 ; N question ; B 98 -14 501 580 ;
C 64 ; WX 600 ; N at ; B 16 -15 584 616 ;

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C 71 ; WX 600 ; N G ; B 22 -18 594 580 ;
C 72 ; WX 600 ; N H ; B 20 0 580 562 ;
C 73 ; WX 600 ; N I ; B 77 0 523 562 ;
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C 75 ; WX 600 ; N K ; B 21 0 599 562 ;
C 76 ; WX 600 ; N L ; B 39 0 578 562 ;
C 77 ; WX 600 ; N M ; B -2 0 602 562 ;
C 78 ; WX 600 ; N N ; B 8 -12 610 562 ;
C 79 ; WX 600 ; N O ; B 22 -18 578 580 ;
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C 81 ; WX 600 ; N Q ; B 32 -138 578 580 ;
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C 87 ; WX 600 ; N W ; B -18 0 618 562 ;
C 88 ; WX 600 ; N X ; B 12 0 588 562 ;
C 89 ; WX 600 ; N Y ; B 12 0 589 562 ;
C 90 ; WX 600 ; N Z ; B 62 0 539 562 ;
C 91 ; WX 600 ; N bracketleft ; B 245 -102 475 616 ;
C 92 ; WX 600 ; N backslash ; B 99 -77 503 626 ;
C 93 ; WX 600 ; N bracketright ; B 125 -102 355 616 ;
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C 98 ; WX 600 ; N b ; B 0 -15 584 626 ;
C 99 ; WX 600 ; N c ; B 40 -15 545 459 ;
C 100 ; WX 600 ; N d ; B 20 -15 591 626 ;
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C 106 ; WX 600 ; N j ; B 63 -146 440 658 ;
C 107 ; WX 600 ; N k ; B 20 0 585 626 ;
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C 109 ; WX 600 ; N m ; B -22 0 626 454 ;
C 110 ; WX 600 ; N n ; B 18 0 592 454 ;
C 111 ; WX 600 ; N o ; B 30 -15 570 454 ;
C 112 ; WX 600 ; N p ; B -1 -142 570 454 ;

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C 114 ; WX 600 ; N r ; B 47 0 580 454 ;
C 115 ; WX 600 ; N s ; B 68 -17 535 459 ;
C 116 ; WX 600 ; N t ; B 47 -15 532 562 ;
C 117 ; WX 600 ; N u ; B -1 -15 569 439 ;
C 118 ; WX 600 ; N v ; B -1 0 601 439 ;
C 119 ; WX 600 ; N w ; B -18 0 618 439 ;
C 120 ; WX 600 ; N x ; B 6 0 594 439 ;
C 121 ; WX 600 ; N y ; B -4 -142 601 439 ;
C 122 ; WX 600 ; N z ; B 81 0 520 439 ;
C 123 ; WX 600 ; N braceleft ; B 160 -102 464 616 ;
C 124 ; WX 600 ; N bar ; B 255 -250 345 750 ;
C 125 ; WX 600 ; N braceright ; B 136 -102 440 616 ;
C 126 ; WX 600 ; N asciitilde ; B 71 153 530 356 ;
C 161 ; WX 600 ; N exclamdown ; B 202 -146 398 449 ;
C 162 ; WX 600 ; N cent ; B 66 -49 518 614 ;
C 163 ; WX 600 ; N sterling ; B 72 -28 558 611 ;
C 164 ; WX 600 ; N fraction ; B 25 -60 576 661 ;
C 165 ; WX 600 ; N yen ; B 10 0 590 562 ;
C 166 ; WX 600 ; N florin ; B -30 -131 572 616 ;
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C 170 ; WX 600 ; N quotedblleft ; B 71 277 535 562 ;
C 171 ; WX 600 ; N guillemotleft ; B 8 70 553 446 ;
C 172 ; WX 600 ; N guilsinglleft ; B 141 70 459 446 ;
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C 180 ; WX 600 ; N periodcentered ; B 196 165 404 351 ;
C 182 ; WX 600 ; N paragraph ; B 6 -70 576 580 ;
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C 188 ; WX 600 ; N ellipsis ; B 26 -15 574 116 ;
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C 191 ; WX 600 ; N questiondown ; B 99 -146 502 449 ;
C 193 ; WX 600 ; N grave ; B 132 508 395 661 ;
C 194 ; WX 600 ; N acute ; B 205 508 468 661 ;
C 195 ; WX 600 ; N circumflex ; B 103 483 497 657 ;
C 196 ; WX 600 ; N tilde ; B 89 493 512 636 ;
C 197 ; WX 600 ; N macron ; B 88 505 512 585 ;
C 198 ; WX 600 ; N breve ; B 83 468 517 631 ;

C 199 ; WX 600 ; N dotaccent ; B 230 498 370 638 ;
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C 202 ; WX 600 ; N ring ; B 198 481 402 678 ;
C 203 ; WX 600 ; N cedilla ; B 205 -206 387 0 ;
C 205 ; WX 600 ; N hungarumlaut ; B 68 488 588 661 ;
C 206 ; WX 600 ; N ogonek ; B 169 -199 400 0 ;
C 207 ; WX 600 ; N caron ; B 103 493 497 667 ;
C 208 ; WX 600 ; N emdash ; B -10 203 610 313 ;
C 225 ; WX 600 ; N AE ; B -29 0 602 562 ;
C 227 ; WX 600 ; N ordfeminine ; B 147 196 453 580 ;
C 232 ; WX 600 ; N Lslash ; B 39 0 578 562 ;
C 233 ; WX 600 ; N Oslash ; B 22 -22 578 584 ;
C 234 ; WX 600 ; N OE ; B -25 0 595 562 ;
C 235 ; WX 600 ; N ordmasculine ; B 147 196 453 580 ;
C 241 ; WX 600 ; N ae ; B -4 -15 601 454 ;
C 245 ; WX 600 ; N dotlessi ; B 77 0 523 439 ;
C 248 ; WX 600 ; N lslash ; B 77 0 523 626 ;
C 249 ; WX 600 ; N oslash ; B 30 -24 570 463 ;
C 250 ; WX 600 ; N oe ; B -18 -15 611 454 ;
C 251 ; WX 600 ; N germandbls ; B 22 -15 596 626 ;
C -1 ; WX 600 ; N Idieresis ; B 77 0 523 761 ;
C -1 ; WX 600 ; N eacute ; B 40 -15 563 661 ;
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C -1 ; WX 600 ; N ecaron ; B 40 -15 563 667 ;
C -1 ; WX 600 ; N Ydieresis ; B 12 0 589 761 ;
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C -1 ; WX 600 ; N aacute ; B 35 -15 570 661 ;
C -1 ; WX 600 ; N Ucircumflex ; B 4 -18 596 780 ;
C -1 ; WX 600 ; N yacute ; B -4 -142 601 661 ;
C -1 ; WX 600 ; N scommaaccent ; B 68 -250 535 459 ;
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C -1 ; WX 600 ; N amacron ; B 35 -15 570 585 ;
C -1 ; WX 600 ; N sacute ; B 68 -17 535 661 ;
C -1 ; WX 600 ; N idieresis ; B 77 0 523 618 ;
C -1 ; WX 600 ; N Ocircumflex ; B 22 -18 578 780 ;
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C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;
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C -1 ; WX 600 ; N twosuperior ; B 143 230 436 616 ;
C -1 ; WX 600 ; N Odieresis ; B 22 -18 578 761 ;
C -1 ; WX 600 ; N mu ; B -1 -142 569 439 ;
C -1 ; WX 600 ; N igrave ; B 77 0 523 661 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 30 -15 668 661 ;
C -1 ; WX 600 ; N Eogonek ; B 25 -199 576 562 ;
C -1 ; WX 600 ; N dcroat ; B 20 -15 591 626 ;
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C -1 ; WX 600 ; N ntilde ; B 18 0 592 636 ;

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C -1 ; WX 600 ; N gbreve ; B 30 -146 580 661 ;
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C -1 ; WX 600 ; N degree ; B 86 243 474 616 ;
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C -1 ; WX 600 ; N Dcaron ; B 30 0 594 790 ;
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 580 454 ;
C -1 ; WX 600 ; N Ntilde ; B 8 -12 610 759 ;
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C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 599 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 578 562 ;
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C -1 ; WX 600 ; N Aring ; B -9 0 609 801 ;
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C -1 ; WX 600 ; N ncaron ; B 18 0 592 667 ;
C -1 ; WX 600 ; N tcommaaccent ; B 47 -250 532 562 ;
C -1 ; WX 600 ; N logicalnot ; B 71 103 529 413 ;
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C -1 ; WX 600 ; N notequal ; B 12 -47 537 563 ;
C -1 ; WX 600 ; N gcommaaccent ; B 30 -146 580 714 ;
C -1 ; WX 600 ; N eth ; B 58 -27 543 626 ;
C -1 ; WX 600 ; N zcaron ; B 81 0 520 667 ;
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C -1 ; WX 600 ; N onesuperior ; B 153 230 447 616 ;
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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Courier-Bold.afm

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Revision: \$Id: svg11

dimensional graphics in XML.

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Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-
flat.dtd

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SVG 1.1 Basic DTD

This is SVG Basic, a proper subset of SVG.

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Revision: \$Id: svg11

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-basic.dtd

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```
#####
# Copyright (C) The Apache Software Foundation. All rights reserved.    #
# ----- #
# This software is published under the terms of the Apache Software License #
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# the LICENSE file. #
#####

# This file registers the example Bridge extension as a service for the
# Bridge context.
org.apache.batik.extension.svg.BatikBridgeExtension
```

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.bridge.BridgeExtension

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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle Attribution\".

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

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StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:45:12 1997

Comment UniqueID 43053

Comment VMusage 14482 68586

FontName Helvetica-BoldOblique

FullName Helvetica Bold Oblique

FamilyName Helvetica

Weight Bold

ItalicAngle -12

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -174 -228 1114 962

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StdHW 118

StdVW 140

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;

C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;

C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;

C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;

C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;

C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;

C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;

C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;

C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;

C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;

C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;

C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;

C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;

C 46 ; WX 278 ; N period ; B 64 0 245 146 ;

C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;

C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;

C 49 ; WX 556 ; N one ; B 173 0 529 710 ;

C 50 ; WX 556 ; N two ; B 26 0 619 710 ;

C 51 ; WX 556 ; N three ; B 65 -19 608 710 ;

C 52 ; WX 556 ; N four ; B 60 0 598 710 ;

C 53 ; WX 556 ; N five ; B 64 -19 636 698 ;

C 54 ; WX 556 ; N six ; B 85 -19 619 710 ;

C 55 ; WX 556 ; N seven ; B 125 0 676 698 ;

C 56 ; WX 556 ; N eight ; B 69 -19 616 710 ;

C 57 ; WX 556 ; N nine ; B 78 -19 615 710 ;

C 58 ; WX 333 ; N colon ; B 92 0 351 512 ;

C 59 ; WX 333 ; N semicolon ; B 56 -168 351 512 ;

C 60 ; WX 584 ; N less ; B 82 -8 655 514 ;

C 61 ; WX 584 ; N equal ; B 58 87 633 419 ;

C 62 ; WX 584 ; N greater ; B 36 -8 609 514 ;

C 63 ; WX 611 ; N question ; B 165 0 671 727 ;

C 64 ; WX 975 ; N at ; B 186 -19 954 737 ;

C 65 ; WX 722 ; N A ; B 20 0 702 718 ;

C 66 ; WX 722 ; N B ; B 76 0 764 718 ;

C 67 ; WX 722 ; N C ; B 107 -19 789 737 ;

C 68 ; WX 722 ; N D ; B 76 0 777 718 ;

C 69 ; WX 667 ; N E ; B 76 0 757 718 ;

C 70 ; WX 611 ; N F ; B 76 0 740 718 ;
C 71 ; WX 778 ; N G ; B 108 -19 817 737 ;
C 72 ; WX 722 ; N H ; B 71 0 804 718 ;
C 73 ; WX 278 ; N I ; B 64 0 367 718 ;
C 74 ; WX 556 ; N J ; B 60 -18 637 718 ;
C 75 ; WX 722 ; N K ; B 87 0 858 718 ;
C 76 ; WX 611 ; N L ; B 76 0 611 718 ;
C 77 ; WX 833 ; N M ; B 69 0 918 718 ;
C 78 ; WX 722 ; N N ; B 69 0 807 718 ;
C 79 ; WX 778 ; N O ; B 107 -19 823 737 ;
C 80 ; WX 667 ; N P ; B 76 0 738 718 ;
C 81 ; WX 778 ; N Q ; B 107 -52 823 737 ;
C 82 ; WX 722 ; N R ; B 76 0 778 718 ;
C 83 ; WX 667 ; N S ; B 81 -19 718 737 ;
C 84 ; WX 611 ; N T ; B 140 0 751 718 ;
C 85 ; WX 722 ; N U ; B 116 -19 804 718 ;
C 86 ; WX 667 ; N V ; B 172 0 801 718 ;
C 87 ; WX 944 ; N W ; B 169 0 1082 718 ;
C 88 ; WX 667 ; N X ; B 14 0 791 718 ;
C 89 ; WX 667 ; N Y ; B 168 0 806 718 ;
C 90 ; WX 611 ; N Z ; B 25 0 737 718 ;
C 91 ; WX 333 ; N bracketleft ; B 21 -196 462 722 ;
C 92 ; WX 278 ; N backslash ; B 124 -19 307 737 ;
C 93 ; WX 333 ; N bracketright ; B -18 -196 423 722 ;
C 94 ; WX 584 ; N asciicircum ; B 131 323 591 698 ;
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;
C 96 ; WX 278 ; N quoteleft ; B 165 454 361 727 ;
C 97 ; WX 556 ; N a ; B 55 -14 583 546 ;
C 98 ; WX 611 ; N b ; B 61 -14 645 718 ;
C 99 ; WX 556 ; N c ; B 79 -14 599 546 ;
C 100 ; WX 611 ; N d ; B 82 -14 704 718 ;
C 101 ; WX 556 ; N e ; B 70 -14 593 546 ;
C 102 ; WX 333 ; N f ; B 87 0 469 727 ; L i fi ; L l fl ;
C 103 ; WX 611 ; N g ; B 38 -217 666 546 ;
C 104 ; WX 611 ; N h ; B 65 0 629 718 ;
C 105 ; WX 278 ; N i ; B 69 0 363 725 ;
C 106 ; WX 278 ; N j ; B -42 -214 363 725 ;
C 107 ; WX 556 ; N k ; B 69 0 670 718 ;
C 108 ; WX 278 ; N l ; B 69 0 362 718 ;
C 109 ; WX 889 ; N m ; B 64 0 909 546 ;
C 110 ; WX 611 ; N n ; B 65 0 629 546 ;
C 111 ; WX 611 ; N o ; B 82 -14 643 546 ;
C 112 ; WX 611 ; N p ; B 18 -207 645 546 ;
C 113 ; WX 611 ; N q ; B 80 -207 665 546 ;
C 114 ; WX 389 ; N r ; B 64 0 489 546 ;
C 115 ; WX 556 ; N s ; B 63 -14 584 546 ;
C 116 ; WX 333 ; N t ; B 100 -6 422 676 ;
C 117 ; WX 611 ; N u ; B 98 -14 658 532 ;

C 118 ; WX 556 ; N v ; B 126 0 656 532 ;
C 119 ; WX 778 ; N w ; B 123 0 882 532 ;
C 120 ; WX 556 ; N x ; B 15 0 648 532 ;
C 121 ; WX 556 ; N y ; B 42 -214 652 532 ;
C 122 ; WX 500 ; N z ; B 20 0 583 532 ;
C 123 ; WX 389 ; N braceleft ; B 94 -196 518 722 ;
C 124 ; WX 280 ; N bar ; B 36 -225 361 775 ;
C 125 ; WX 389 ; N braceright ; B -18 -196 407 722 ;
C 126 ; WX 584 ; N asciitilde ; B 115 163 577 343 ;
C 161 ; WX 333 ; N exclamdown ; B 50 -186 353 532 ;
C 162 ; WX 556 ; N cent ; B 79 -118 599 628 ;
C 163 ; WX 556 ; N sterling ; B 50 -16 635 718 ;
C 164 ; WX 167 ; N fraction ; B -174 -19 487 710 ;
C 165 ; WX 556 ; N yen ; B 60 0 713 698 ;
C 166 ; WX 556 ; N florin ; B -50 -210 669 737 ;
C 167 ; WX 556 ; N section ; B 61 -184 598 727 ;
C 168 ; WX 556 ; N currency ; B 27 76 680 636 ;
C 169 ; WX 238 ; N quotesingle ; B 165 447 321 718 ;
C 170 ; WX 500 ; N quotedblleft ; B 160 454 588 727 ;
C 171 ; WX 556 ; N guillemotleft ; B 135 76 571 484 ;
C 172 ; WX 333 ; N guilsinglleft ; B 130 76 353 484 ;
C 173 ; WX 333 ; N guilsinglright ; B 99 76 322 484 ;
C 174 ; WX 611 ; N fi ; B 87 0 696 727 ;
C 175 ; WX 611 ; N fl ; B 87 0 695 727 ;
C 177 ; WX 556 ; N endash ; B 48 227 627 333 ;
C 178 ; WX 556 ; N dagger ; B 118 -171 626 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 46 -171 628 718 ;
C 180 ; WX 278 ; N periodcentered ; B 110 172 276 334 ;
C 182 ; WX 556 ; N paragraph ; B 98 -191 688 700 ;
C 183 ; WX 350 ; N bullet ; B 83 194 420 524 ;
C 184 ; WX 278 ; N quotesinglbase ; B 41 -146 236 127 ;
C 185 ; WX 500 ; N quotedblbase ; B 36 -146 463 127 ;
C 186 ; WX 500 ; N quotedblright ; B 162 445 589 718 ;
C 187 ; WX 556 ; N guillemotright ; B 104 76 540 484 ;
C 188 ; WX 1000 ; N ellipsis ; B 92 0 939 146 ;
C 189 ; WX 1000 ; N perthousand ; B 76 -19 1038 710 ;
C 191 ; WX 611 ; N questiondown ; B 53 -195 559 532 ;
C 193 ; WX 333 ; N grave ; B 136 604 353 750 ;
C 194 ; WX 333 ; N acute ; B 236 604 515 750 ;
C 195 ; WX 333 ; N circumflex ; B 118 604 471 750 ;
C 196 ; WX 333 ; N tilde ; B 113 610 507 737 ;
C 197 ; WX 333 ; N macron ; B 122 604 483 678 ;
C 198 ; WX 333 ; N breve ; B 156 604 494 750 ;
C 199 ; WX 333 ; N dotaccent ; B 235 614 385 729 ;
C 200 ; WX 333 ; N dieresis ; B 137 614 482 729 ;
C 202 ; WX 333 ; N ring ; B 200 568 420 776 ;
C 203 ; WX 333 ; N cedilla ; B -37 -228 220 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 137 604 645 750 ;

C 206 ; WX 333 ; N ogonek ; B 41 -228 264 0 ;
C 207 ; WX 333 ; N caron ; B 149 604 502 750 ;
C 208 ; WX 1000 ; N emdash ; B 48 227 1071 333 ;
C 225 ; WX 1000 ; N AE ; B 5 0 1100 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 125 401 465 737 ;
C 232 ; WX 611 ; N Lslash ; B 34 0 611 718 ;
C 233 ; WX 778 ; N Oslash ; B 35 -27 894 745 ;
C 234 ; WX 1000 ; N OE ; B 99 -19 1114 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 123 401 485 737 ;
C 241 ; WX 889 ; N ae ; B 56 -14 923 546 ;
C 245 ; WX 278 ; N dotlessi ; B 69 0 322 532 ;
C 248 ; WX 278 ; N lslash ; B 40 0 407 718 ;
C 249 ; WX 611 ; N oslash ; B 22 -29 701 560 ;
C 250 ; WX 944 ; N oe ; B 82 -14 977 546 ;
C 251 ; WX 611 ; N germandbls ; B 69 -14 657 731 ;
C -1 ; WX 278 ; N Idieresis ; B 64 0 494 915 ;
C -1 ; WX 556 ; N eacute ; B 70 -14 627 750 ;
C -1 ; WX 556 ; N abreve ; B 55 -14 606 750 ;
C -1 ; WX 611 ; N uhungarumlaut ; B 98 -14 784 750 ;
C -1 ; WX 556 ; N ecaron ; B 70 -14 614 750 ;
C -1 ; WX 667 ; N Ydieresis ; B 168 0 806 915 ;
C -1 ; WX 584 ; N divide ; B 82 -42 610 548 ;
C -1 ; WX 667 ; N Yacute ; B 168 0 806 936 ;
C -1 ; WX 722 ; N Acircumflex ; B 20 0 706 936 ;
C -1 ; WX 556 ; N aacute ; B 55 -14 627 750 ;
C -1 ; WX 722 ; N Ucircumflex ; B 116 -19 804 936 ;
C -1 ; WX 556 ; N yacute ; B 42 -214 652 750 ;
C -1 ; WX 556 ; N scommaaccent ; B 63 -228 584 546 ;
C -1 ; WX 556 ; N ecircumflex ; B 70 -14 593 750 ;
C -1 ; WX 722 ; N Uring ; B 116 -19 804 962 ;
C -1 ; WX 722 ; N Udieresis ; B 116 -19 804 915 ;
C -1 ; WX 556 ; N aogonek ; B 55 -224 583 546 ;
C -1 ; WX 722 ; N Uacute ; B 116 -19 804 936 ;
C -1 ; WX 611 ; N uogonek ; B 98 -228 658 532 ;
C -1 ; WX 667 ; N Edieresis ; B 76 0 757 915 ;
C -1 ; WX 722 ; N Dcroat ; B 62 0 777 718 ;
C -1 ; WX 250 ; N commaaccent ; B 16 -228 188 -50 ;
C -1 ; WX 737 ; N copyright ; B 56 -19 835 737 ;
C -1 ; WX 667 ; N Emacron ; B 76 0 757 864 ;
C -1 ; WX 556 ; N ccaron ; B 79 -14 614 750 ;
C -1 ; WX 556 ; N aring ; B 55 -14 583 776 ;
C -1 ; WX 722 ; N Ncommaaccent ; B 69 -228 807 718 ;
C -1 ; WX 278 ; N lacute ; B 69 0 528 936 ;
C -1 ; WX 556 ; N agrave ; B 55 -14 583 750 ;
C -1 ; WX 611 ; N Tcommaaccent ; B 140 -228 751 718 ;
C -1 ; WX 722 ; N Cacute ; B 107 -19 789 936 ;
C -1 ; WX 556 ; N atilde ; B 55 -14 619 737 ;
C -1 ; WX 667 ; N Edotaccent ; B 76 0 757 915 ;

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C -1 ; WX 556 ; N scedilla ; B 63 -228 584 546 ;
C -1 ; WX 278 ; N iacute ; B 69 0 488 750 ;
C -1 ; WX 494 ; N lozenge ; B 90 0 564 745 ;
C -1 ; WX 722 ; N Rcaron ; B 76 0 778 936 ;
C -1 ; WX 778 ; N Gcommaaccent ; B 108 -228 817 737 ;
C -1 ; WX 611 ; N ucircumflex ; B 98 -14 658 750 ;
C -1 ; WX 556 ; N acircumflex ; B 55 -14 583 750 ;
C -1 ; WX 722 ; N Amacron ; B 20 0 718 864 ;
C -1 ; WX 389 ; N rcaron ; B 64 0 530 750 ;
C -1 ; WX 556 ; N ccedilla ; B 79 -228 599 546 ;
C -1 ; WX 611 ; N Zdotaccent ; B 25 0 737 915 ;
C -1 ; WX 667 ; N Thorn ; B 76 0 716 718 ;
C -1 ; WX 778 ; N Omacron ; B 107 -19 823 864 ;
C -1 ; WX 722 ; N Racute ; B 76 0 778 936 ;
C -1 ; WX 667 ; N Sacute ; B 81 -19 722 936 ;
C -1 ; WX 743 ; N dcaron ; B 82 -14 903 718 ;
C -1 ; WX 722 ; N Umacron ; B 116 -19 804 864 ;
C -1 ; WX 611 ; N uring ; B 98 -14 658 776 ;
C -1 ; WX 333 ; N threesuperior ; B 91 271 441 710 ;
C -1 ; WX 778 ; N Ograve ; B 107 -19 823 936 ;
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;
C -1 ; WX 722 ; N Abreve ; B 20 0 729 936 ;
C -1 ; WX 584 ; N multiply ; B 57 1 635 505 ;
C -1 ; WX 611 ; N uacute ; B 98 -14 658 750 ;
C -1 ; WX 611 ; N Tcaron ; B 140 0 751 936 ;
C -1 ; WX 494 ; N partialdiff ; B 43 -21 585 750 ;
C -1 ; WX 556 ; N ydieresis ; B 42 -214 652 729 ;
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C -1 ; WX 278 ; N icircumflex ; B 69 0 444 750 ;
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 757 936 ;
C -1 ; WX 556 ; N adieresis ; B 55 -14 594 729 ;
C -1 ; WX 556 ; N edieresis ; B 70 -14 594 729 ;
C -1 ; WX 556 ; N cacute ; B 79 -14 627 750 ;
C -1 ; WX 611 ; N nacute ; B 65 0 654 750 ;
C -1 ; WX 611 ; N umacron ; B 98 -14 658 678 ;
C -1 ; WX 722 ; N Ncaron ; B 69 0 807 936 ;
C -1 ; WX 278 ; N Iacute ; B 64 0 528 936 ;
C -1 ; WX 584 ; N plusminus ; B 40 0 625 506 ;
C -1 ; WX 280 ; N brokenbar ; B 52 -150 345 700 ;
C -1 ; WX 737 ; N registered ; B 55 -19 834 737 ;
C -1 ; WX 778 ; N Gbreve ; B 108 -19 817 936 ;
C -1 ; WX 278 ; N Idotaccent ; B 64 0 397 915 ;
C -1 ; WX 600 ; N summation ; B 14 -10 670 706 ;
C -1 ; WX 667 ; N Egrave ; B 76 0 757 936 ;
C -1 ; WX 389 ; N racute ; B 64 0 543 750 ;
C -1 ; WX 611 ; N omacron ; B 82 -14 643 678 ;
C -1 ; WX 611 ; N Zacute ; B 25 0 737 936 ;

C -1 ; WX 611 ; N Zcaron ; B 25 0 737 936 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 629 704 ;
C -1 ; WX 722 ; N Eth ; B 62 0 777 718 ;
C -1 ; WX 722 ; N Ccedilla ; B 107 -228 789 737 ;
C -1 ; WX 278 ; N lcommaaccent ; B 30 -228 362 718 ;
C -1 ; WX 389 ; N tcaron ; B 100 -6 608 878 ;
C -1 ; WX 556 ; N eogonek ; B 70 -228 593 546 ;
C -1 ; WX 722 ; N Uogonek ; B 116 -228 804 718 ;
C -1 ; WX 722 ; N Aacute ; B 20 0 750 936 ;
C -1 ; WX 722 ; N Adieresis ; B 20 0 716 915 ;
C -1 ; WX 556 ; N egrave ; B 70 -14 593 750 ;
C -1 ; WX 500 ; N zacute ; B 20 0 599 750 ;
C -1 ; WX 278 ; N iogonek ; B -14 -224 363 725 ;
C -1 ; WX 778 ; N Oacute ; B 107 -19 823 936 ;
C -1 ; WX 611 ; N oacute ; B 82 -14 654 750 ;
C -1 ; WX 556 ; N amacron ; B 55 -14 595 678 ;
C -1 ; WX 556 ; N sacute ; B 63 -14 627 750 ;
C -1 ; WX 278 ; N idieresis ; B 69 0 455 729 ;
C -1 ; WX 778 ; N Ocircumflex ; B 107 -19 823 936 ;
C -1 ; WX 722 ; N Ugrave ; B 116 -19 804 936 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 611 ; N thorn ; B 18 -208 645 718 ;
C -1 ; WX 333 ; N twosuperior ; B 69 283 449 710 ;
C -1 ; WX 778 ; N Odieresis ; B 107 -19 823 915 ;
C -1 ; WX 611 ; N mu ; B 22 -207 658 532 ;
C -1 ; WX 278 ; N igrave ; B 69 0 326 750 ;
C -1 ; WX 611 ; N ohungarumlaut ; B 82 -14 784 750 ;
C -1 ; WX 667 ; N Eogonek ; B 76 -224 757 718 ;
C -1 ; WX 611 ; N dcroat ; B 82 -14 789 718 ;
C -1 ; WX 834 ; N threequarters ; B 99 -19 839 710 ;
C -1 ; WX 667 ; N Scedilla ; B 81 -228 718 737 ;
C -1 ; WX 400 ; N lcaron ; B 69 0 561 718 ;
C -1 ; WX 722 ; N Kcommaaccent ; B 87 -228 858 718 ;
C -1 ; WX 611 ; N Lacute ; B 76 0 611 936 ;
C -1 ; WX 1000 ; N trademark ; B 179 306 1109 718 ;
C -1 ; WX 556 ; N edotaccent ; B 70 -14 593 729 ;
C -1 ; WX 278 ; N Igrave ; B 64 0 367 936 ;
C -1 ; WX 278 ; N Imacron ; B 64 0 496 864 ;
C -1 ; WX 611 ; N Lcaron ; B 76 0 643 718 ;
C -1 ; WX 834 ; N onehalf ; B 132 -19 858 710 ;
C -1 ; WX 549 ; N lessequal ; B 29 0 676 704 ;
C -1 ; WX 611 ; N ocircumflex ; B 82 -14 643 750 ;
C -1 ; WX 611 ; N ntilde ; B 65 0 646 737 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 116 -19 880 936 ;
C -1 ; WX 667 ; N Eacute ; B 76 0 757 936 ;
C -1 ; WX 556 ; N emacron ; B 70 -14 595 678 ;
C -1 ; WX 611 ; N gbreve ; B 38 -217 666 750 ;
C -1 ; WX 834 ; N onequarter ; B 132 -19 806 710 ;

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C -1 ; WX 667 ; N Scommaaccent ; B 81 -228 718 737 ;
C -1 ; WX 778 ; N Ohungarumlaut ; B 107 -19 908 936 ;
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C -1 ; WX 722 ; N Ccaron ; B 107 -19 789 936 ;
C -1 ; WX 611 ; N ugrave ; B 98 -14 658 750 ;
C -1 ; WX 549 ; N radical ; B 112 -46 689 850 ;
C -1 ; WX 722 ; N Dcaron ; B 76 0 777 936 ;
C -1 ; WX 389 ; N rcommaaccent ; B 26 -228 489 546 ;
C -1 ; WX 722 ; N Ntilde ; B 69 0 807 923 ;
C -1 ; WX 611 ; N otilde ; B 82 -14 646 737 ;
C -1 ; WX 722 ; N Rcommaaccent ; B 76 -228 778 718 ;
C -1 ; WX 611 ; N Lcommaaccent ; B 76 -228 611 718 ;
C -1 ; WX 722 ; N Atilde ; B 20 0 741 923 ;
C -1 ; WX 722 ; N Aogonek ; B 20 -224 702 718 ;
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;
C -1 ; WX 778 ; N Otilde ; B 107 -19 823 923 ;
C -1 ; WX 500 ; N zdotaccent ; B 20 0 583 729 ;
C -1 ; WX 667 ; N Ecaron ; B 76 0 757 936 ;
C -1 ; WX 278 ; N Iogonek ; B -41 -228 367 718 ;
C -1 ; WX 556 ; N kcommaaccent ; B 69 -228 670 718 ;
C -1 ; WX 584 ; N minus ; B 82 197 610 309 ;
C -1 ; WX 278 ; N Icircumflex ; B 64 0 484 936 ;
C -1 ; WX 611 ; N ncaron ; B 65 0 641 750 ;
C -1 ; WX 333 ; N tcommaaccent ; B 58 -228 422 676 ;
C -1 ; WX 584 ; N logicalnot ; B 105 108 633 419 ;
C -1 ; WX 611 ; N odieresis ; B 82 -14 643 729 ;
C -1 ; WX 611 ; N udieresis ; B 98 -14 658 729 ;
C -1 ; WX 549 ; N notequal ; B 32 -49 630 570 ;
C -1 ; WX 611 ; N gcommaaccent ; B 38 -217 666 850 ;
C -1 ; WX 611 ; N eth ; B 82 -14 670 737 ;
C -1 ; WX 500 ; N zcaron ; B 20 0 586 750 ;
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C -1 ; WX 278 ; N imacron ; B 69 0 429 678 ;
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2481

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KPX A Cacute -40

KPX A Ccaron -40

KPX A Ccedilla -40

KPX A G -50

KPX A Gbreve -50

KPX A Gcommaaccent -50

KPX A O -40

KPX A Oacute -40
KPX A Ocircumflex -40
KPX A Odieresis -40
KPX A Ograve -40
KPX A Ohungarumlaut -40
KPX A Omacron -40
KPX A Oslash -40
KPX A Otilde -40
KPX A Q -40
KPX A T -90
KPX A Tcaron -90
KPX A Tcommaaccent -90
KPX A U -50
KPX A Uacute -50
KPX A Ucircumflex -50
KPX A Udieresis -50
KPX A Ugrave -50
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KPX A Umacron -50
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KPX rcommaaccent tcommaaccent 20
KPX rcommaaccent v 10
KPX rcommaaccent y 10
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KPX rcommaaccent ydieresis 10
KPX s w -15
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KPX scaron w -15
KPX scedilla w -15
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KPX semicolon space -40
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KPX space Tcaron -100
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KPX space V -80
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KPX space Ydieresis -120

KPX space quotedblleft -80
KPX space quoteleft -60
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KPX v agrave -20
KPX v amacron -20
KPX v aogonek -20
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KPX v atilde -20
KPX v comma -80
KPX v o -30
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KPX v ocircumflex -30
KPX v odieresis -30
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KPX v ohungarumlaut -30
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EndKernData
EndFontMetrics

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Revision: \$Id: svg11

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StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:38:23 1997

Comment UniqueID 43054

Comment VMusage 37069 48094

FontName Helvetica

FullName Helvetica

FamilyName Helvetica

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -166 -225 1000 931

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StdHW 76

StdVW 88

StartCharMetrics 315

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C 33 ; WX 278 ; N exclam ; B 90 0 187 718 ;

C 34 ; WX 355 ; N quotedbl ; B 70 463 285 718 ;

C 35 ; WX 556 ; N numbersign ; B 28 0 529 688 ;

C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;

C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;

C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;

C 39 ; WX 222 ; N quoteright ; B 53 463 157 718 ;
C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;
C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;
C 42 ; WX 389 ; N asterisk ; B 39 431 349 718 ;
C 43 ; WX 584 ; N plus ; B 39 0 545 505 ;
C 44 ; WX 278 ; N comma ; B 87 -147 191 106 ;
C 45 ; WX 333 ; N hyphen ; B 44 232 289 322 ;
C 46 ; WX 278 ; N period ; B 87 0 191 106 ;
C 47 ; WX 278 ; N slash ; B -17 -19 295 737 ;
C 48 ; WX 556 ; N zero ; B 37 -19 519 703 ;
C 49 ; WX 556 ; N one ; B 101 0 359 703 ;
C 50 ; WX 556 ; N two ; B 26 0 507 703 ;
C 51 ; WX 556 ; N three ; B 34 -19 522 703 ;
C 52 ; WX 556 ; N four ; B 25 0 523 703 ;
C 53 ; WX 556 ; N five ; B 32 -19 514 688 ;
C 54 ; WX 556 ; N six ; B 38 -19 518 703 ;
C 55 ; WX 556 ; N seven ; B 37 0 523 688 ;
C 56 ; WX 556 ; N eight ; B 38 -19 517 703 ;
C 57 ; WX 556 ; N nine ; B 42 -19 514 703 ;
C 58 ; WX 278 ; N colon ; B 87 0 191 516 ;
C 59 ; WX 278 ; N semicolon ; B 87 -147 191 516 ;
C 60 ; WX 584 ; N less ; B 48 11 536 495 ;
C 61 ; WX 584 ; N equal ; B 39 115 545 390 ;
C 62 ; WX 584 ; N greater ; B 48 11 536 495 ;
C 63 ; WX 556 ; N question ; B 56 0 492 727 ;
C 64 ; WX 1015 ; N at ; B 147 -19 868 737 ;
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;
C 66 ; WX 667 ; N B ; B 74 0 627 718 ;
C 67 ; WX 722 ; N C ; B 44 -19 681 737 ;
C 68 ; WX 722 ; N D ; B 81 0 674 718 ;
C 69 ; WX 667 ; N E ; B 86 0 616 718 ;
C 70 ; WX 611 ; N F ; B 86 0 583 718 ;
C 71 ; WX 778 ; N G ; B 48 -19 704 737 ;
C 72 ; WX 722 ; N H ; B 77 0 646 718 ;
C 73 ; WX 278 ; N I ; B 91 0 188 718 ;
C 74 ; WX 500 ; N J ; B 17 -19 428 718 ;
C 75 ; WX 667 ; N K ; B 76 0 663 718 ;
C 76 ; WX 556 ; N L ; B 76 0 537 718 ;
C 77 ; WX 833 ; N M ; B 73 0 761 718 ;
C 78 ; WX 722 ; N N ; B 76 0 646 718 ;
C 79 ; WX 778 ; N O ; B 39 -19 739 737 ;
C 80 ; WX 667 ; N P ; B 86 0 622 718 ;
C 81 ; WX 778 ; N Q ; B 39 -56 739 737 ;
C 82 ; WX 722 ; N R ; B 88 0 684 718 ;
C 83 ; WX 667 ; N S ; B 49 -19 620 737 ;
C 84 ; WX 611 ; N T ; B 14 0 597 718 ;
C 85 ; WX 722 ; N U ; B 79 -19 644 718 ;
C 86 ; WX 667 ; N V ; B 20 0 647 718 ;

C 87 ; WX 944 ; N W ; B 16 0 928 718 ;
C 88 ; WX 667 ; N X ; B 19 0 648 718 ;
C 89 ; WX 667 ; N Y ; B 14 0 653 718 ;
C 90 ; WX 611 ; N Z ; B 23 0 588 718 ;
C 91 ; WX 278 ; N bracketleft ; B 63 -196 250 722 ;
C 92 ; WX 278 ; N backslash ; B -17 -19 295 737 ;
C 93 ; WX 278 ; N bracketright ; B 28 -196 215 722 ;
C 94 ; WX 469 ; N asciicircum ; B -14 264 483 688 ;
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;
C 96 ; WX 222 ; N quoteleft ; B 65 470 169 725 ;
C 97 ; WX 556 ; N a ; B 36 -15 530 538 ;
C 98 ; WX 556 ; N b ; B 58 -15 517 718 ;
C 99 ; WX 500 ; N c ; B 30 -15 477 538 ;
C 100 ; WX 556 ; N d ; B 35 -15 499 718 ;
C 101 ; WX 556 ; N e ; B 40 -15 516 538 ;
C 102 ; WX 278 ; N f ; B 14 0 262 728 ; L i f i ; L l f l ;
C 103 ; WX 556 ; N g ; B 40 -220 499 538 ;
C 104 ; WX 556 ; N h ; B 65 0 491 718 ;
C 105 ; WX 222 ; N i ; B 67 0 155 718 ;
C 106 ; WX 222 ; N j ; B -16 -210 155 718 ;
C 107 ; WX 500 ; N k ; B 67 0 501 718 ;
C 108 ; WX 222 ; N l ; B 67 0 155 718 ;
C 109 ; WX 833 ; N m ; B 65 0 769 538 ;
C 110 ; WX 556 ; N n ; B 65 0 491 538 ;
C 111 ; WX 556 ; N o ; B 35 -14 521 538 ;
C 112 ; WX 556 ; N p ; B 58 -207 517 538 ;
C 113 ; WX 556 ; N q ; B 35 -207 494 538 ;
C 114 ; WX 333 ; N r ; B 77 0 332 538 ;
C 115 ; WX 500 ; N s ; B 32 -15 464 538 ;
C 116 ; WX 278 ; N t ; B 14 -7 257 669 ;
C 117 ; WX 556 ; N u ; B 68 -15 489 523 ;
C 118 ; WX 500 ; N v ; B 8 0 492 523 ;
C 119 ; WX 722 ; N w ; B 14 0 709 523 ;
C 120 ; WX 500 ; N x ; B 11 0 490 523 ;
C 121 ; WX 500 ; N y ; B 11 -214 489 523 ;
C 122 ; WX 500 ; N z ; B 31 0 469 523 ;
C 123 ; WX 334 ; N braceleft ; B 42 -196 292 722 ;
C 124 ; WX 260 ; N bar ; B 94 -225 167 775 ;
C 125 ; WX 334 ; N braceright ; B 42 -196 292 722 ;
C 126 ; WX 584 ; N asciitilde ; B 61 180 523 326 ;
C 161 ; WX 333 ; N exclamdown ; B 118 -195 215 523 ;
C 162 ; WX 556 ; N cent ; B 51 -115 513 623 ;
C 163 ; WX 556 ; N sterling ; B 33 -16 539 718 ;
C 164 ; WX 167 ; N fraction ; B -166 -19 333 703 ;
C 165 ; WX 556 ; N yen ; B 3 0 553 688 ;
C 166 ; WX 556 ; N florin ; B -11 -207 501 737 ;
C 167 ; WX 556 ; N section ; B 43 -191 512 737 ;
C 168 ; WX 556 ; N currency ; B 28 99 528 603 ;

C 169 ; WX 191 ; N quotesingle ; B 59 463 132 718 ;
C 170 ; WX 333 ; N quotedblleft ; B 38 470 307 725 ;
C 171 ; WX 556 ; N guillemotleft ; B 97 108 459 446 ;
C 172 ; WX 333 ; N guilsinglleft ; B 88 108 245 446 ;
C 173 ; WX 333 ; N guilsinglright ; B 88 108 245 446 ;
C 174 ; WX 500 ; N fi ; B 14 0 434 728 ;
C 175 ; WX 500 ; N fl ; B 14 0 432 728 ;
C 177 ; WX 556 ; N endash ; B 0 240 556 313 ;
C 178 ; WX 556 ; N dagger ; B 43 -159 514 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 43 -159 514 718 ;
C 180 ; WX 278 ; N periodcentered ; B 77 190 202 315 ;
C 182 ; WX 537 ; N paragraph ; B 18 -173 497 718 ;
C 183 ; WX 350 ; N bullet ; B 18 202 333 517 ;
C 184 ; WX 222 ; N quotesinglbase ; B 53 -149 157 106 ;
C 185 ; WX 333 ; N quotedblbase ; B 26 -149 295 106 ;
C 186 ; WX 333 ; N quotedblright ; B 26 463 295 718 ;
C 187 ; WX 556 ; N guillemotright ; B 97 108 459 446 ;
C 188 ; WX 1000 ; N ellipsis ; B 115 0 885 106 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 703 ;
C 191 ; WX 611 ; N questiondown ; B 91 -201 527 525 ;
C 193 ; WX 333 ; N grave ; B 14 593 211 734 ;
C 194 ; WX 333 ; N acute ; B 122 593 319 734 ;
C 195 ; WX 333 ; N circumflex ; B 21 593 312 734 ;
C 196 ; WX 333 ; N tilde ; B -4 606 337 722 ;
C 197 ; WX 333 ; N macron ; B 10 627 323 684 ;
C 198 ; WX 333 ; N breve ; B 13 595 321 731 ;
C 199 ; WX 333 ; N dotaccent ; B 121 604 212 706 ;
C 200 ; WX 333 ; N dieresis ; B 40 604 293 706 ;
C 202 ; WX 333 ; N ring ; B 75 572 259 756 ;
C 203 ; WX 333 ; N cedilla ; B 45 -225 259 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 31 593 409 734 ;
C 206 ; WX 333 ; N ogonek ; B 73 -225 287 0 ;
C 207 ; WX 333 ; N caron ; B 21 593 312 734 ;
C 208 ; WX 1000 ; N emdash ; B 0 240 1000 313 ;
C 225 ; WX 1000 ; N AE ; B 8 0 951 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 24 405 346 737 ;
C 232 ; WX 556 ; N Lslash ; B -20 0 537 718 ;
C 233 ; WX 778 ; N Oslash ; B 39 -19 740 737 ;
C 234 ; WX 1000 ; N OE ; B 36 -19 965 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 25 405 341 737 ;
C 241 ; WX 889 ; N ae ; B 36 -15 847 538 ;
C 245 ; WX 278 ; N dotlessi ; B 95 0 183 523 ;
C 248 ; WX 222 ; N lslash ; B -20 0 242 718 ;
C 249 ; WX 611 ; N oslash ; B 28 -22 537 545 ;
C 250 ; WX 944 ; N oe ; B 35 -15 902 538 ;
C 251 ; WX 611 ; N germandbls ; B 67 -15 571 728 ;
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C -1 ; WX 556 ; N eacute ; B 40 -15 516 734 ;

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C -1 ; WX 722 ; N Ucircumflex ; B 79 -19 644 929 ;
C -1 ; WX 500 ; N yacute ; B 11 -214 489 734 ;
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C -1 ; WX 556 ; N ecircumflex ; B 40 -15 516 734 ;
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C -1 ; WX 260 ; N brokenbar ; B 94 -150 167 700 ;
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C -1 ; WX 778 ; N Gbreve ; B 48 -19 704 926 ;
C -1 ; WX 278 ; N Idotaccent ; B 91 0 188 901 ;
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C -1 ; WX 611 ; N Zacute ; B 23 0 588 929 ;
C -1 ; WX 611 ; N Zcaron ; B 23 0 588 929 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 674 ;
C -1 ; WX 722 ; N Eth ; B 0 0 674 718 ;
C -1 ; WX 722 ; N Ccedilla ; B 44 -225 681 737 ;
C -1 ; WX 222 ; N lcommaaccent ; B 67 -225 167 718 ;
C -1 ; WX 317 ; N tcaron ; B 14 -7 329 808 ;
C -1 ; WX 556 ; N eogonek ; B 40 -225 516 538 ;
C -1 ; WX 722 ; N Uogonek ; B 79 -225 644 718 ;
C -1 ; WX 667 ; N Aacute ; B 14 0 654 929 ;
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;
C -1 ; WX 556 ; N egrave ; B 40 -15 516 734 ;
C -1 ; WX 500 ; N zacute ; B 31 0 469 734 ;
C -1 ; WX 222 ; N iogonek ; B -31 -225 183 718 ;
C -1 ; WX 778 ; N Oacute ; B 39 -19 739 929 ;
C -1 ; WX 556 ; N oacute ; B 35 -14 521 734 ;
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C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 556 ; N thorn ; B 58 -207 517 718 ;
C -1 ; WX 333 ; N twosuperior ; B 4 281 323 703 ;
C -1 ; WX 778 ; N Odieresis ; B 39 -19 739 901 ;
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C -1 ; WX 667 ; N Eogonek ; B 86 -220 633 718 ;
C -1 ; WX 556 ; N dcroat ; B 35 -15 550 718 ;
C -1 ; WX 834 ; N threequarters ; B 45 -19 810 703 ;
C -1 ; WX 667 ; N Scedilla ; B 49 -225 620 737 ;
C -1 ; WX 299 ; N lcaron ; B 67 0 311 718 ;
C -1 ; WX 667 ; N Kcommaaccent ; B 76 -225 663 718 ;
C -1 ; WX 556 ; N Lacute ; B 76 0 537 929 ;
C -1 ; WX 1000 ; N trademark ; B 46 306 903 718 ;
C -1 ; WX 556 ; N edotaccent ; B 40 -15 516 706 ;
C -1 ; WX 278 ; N Igrave ; B -13 0 188 929 ;
C -1 ; WX 278 ; N Imacron ; B -17 0 296 879 ;
C -1 ; WX 556 ; N Lcaron ; B 76 0 537 718 ;
C -1 ; WX 834 ; N onehalf ; B 43 -19 773 703 ;
C -1 ; WX 549 ; N lessequal ; B 26 0 523 674 ;
C -1 ; WX 556 ; N ocircumflex ; B 35 -14 521 734 ;
C -1 ; WX 556 ; N ntilde ; B 65 0 491 722 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 79 -19 644 929 ;
C -1 ; WX 667 ; N Eacute ; B 86 0 616 929 ;
C -1 ; WX 556 ; N emacron ; B 40 -15 516 684 ;
C -1 ; WX 556 ; N gbreve ; B 40 -220 499 731 ;
C -1 ; WX 834 ; N onequarter ; B 73 -19 756 703 ;
C -1 ; WX 667 ; N Scaron ; B 49 -19 620 929 ;
C -1 ; WX 667 ; N Scommaaccent ; B 49 -225 620 737 ;
C -1 ; WX 778 ; N Ohungarumlaut ; B 39 -19 739 929 ;
C -1 ; WX 400 ; N degree ; B 54 411 346 703 ;
C -1 ; WX 556 ; N ograve ; B 35 -14 521 734 ;
C -1 ; WX 722 ; N Ccaron ; B 44 -19 681 929 ;
C -1 ; WX 556 ; N ugrave ; B 68 -15 489 734 ;
C -1 ; WX 453 ; N radical ; B -4 -80 458 762 ;
C -1 ; WX 722 ; N Dcaron ; B 81 0 674 929 ;
C -1 ; WX 333 ; N rcommaaccent ; B 77 -225 332 538 ;
C -1 ; WX 722 ; N Ntilde ; B 76 0 646 917 ;
C -1 ; WX 556 ; N otilde ; B 35 -14 521 722 ;
C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 684 718 ;
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 537 718 ;
C -1 ; WX 667 ; N Atilde ; B 14 0 654 917 ;
C -1 ; WX 667 ; N Aogonek ; B 14 -225 654 718 ;
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;

C -1 ; WX 778 ; N Otilde ; B 39 -19 739 917 ;
C -1 ; WX 500 ; N zdotaccent ; B 31 0 469 706 ;
C -1 ; WX 667 ; N Ecaron ; B 86 0 616 929 ;
C -1 ; WX 278 ; N Iogonek ; B -3 -225 211 718 ;
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 501 718 ;
C -1 ; WX 584 ; N minus ; B 39 216 545 289 ;
C -1 ; WX 278 ; N Icircumflex ; B -6 0 285 929 ;
C -1 ; WX 556 ; N ncaron ; B 65 0 491 734 ;
C -1 ; WX 278 ; N tcommaaccent ; B 14 -225 257 669 ;
C -1 ; WX 584 ; N logicalnot ; B 39 108 545 390 ;
C -1 ; WX 556 ; N odieresis ; B 35 -14 521 706 ;
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C -1 ; WX 549 ; N notequal ; B 12 -35 537 551 ;
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C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;
C -1 ; WX 500 ; N zcaron ; B 31 0 469 734 ;
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 491 538 ;
C -1 ; WX 333 ; N onesuperior ; B 43 281 222 703 ;
C -1 ; WX 278 ; N imacron ; B 5 0 272 684 ;
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

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KPX A Odieresis -30

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KPX A Otilde -30

KPX A Q -30

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KPX oslash x -85
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EndKernPairs
EndKernData
EndFontMetrics

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Helvetica.afm

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

SVG 1.1 Tiny DTD

This is SVG Tiny, a proper subset of SVG.

The Scalable Vector Graphics (SVG)

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Revision: \$Id: svg11

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-tiny.dtd

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StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:44:31 1997

Comment UniqueID 43055

Comment VMusage 14960 69346

FontName Helvetica-Oblique

FullName Helvetica Oblique

FamilyName Helvetica

Weight Medium

ItalicAngle -12

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -170 -225 1116 931

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207
StdHW 76
StdVW 88
StartCharMetrics 315
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C 33 ; WX 278 ; N exclam ; B 90 0 340 718 ;
C 34 ; WX 355 ; N quotedbl ; B 168 463 438 718 ;
C 35 ; WX 556 ; N numbersign ; B 73 0 631 688 ;
C 36 ; WX 556 ; N dollar ; B 69 -115 617 775 ;
C 37 ; WX 889 ; N percent ; B 147 -19 889 703 ;
C 38 ; WX 667 ; N ampersand ; B 77 -15 647 718 ;
C 39 ; WX 222 ; N quoteright ; B 151 463 310 718 ;
C 40 ; WX 333 ; N parenleft ; B 108 -207 454 733 ;
C 41 ; WX 333 ; N parenright ; B -9 -207 337 733 ;
C 42 ; WX 389 ; N asterisk ; B 165 431 475 718 ;
C 43 ; WX 584 ; N plus ; B 85 0 606 505 ;
C 44 ; WX 278 ; N comma ; B 56 -147 214 106 ;
C 45 ; WX 333 ; N hyphen ; B 93 232 357 322 ;
C 46 ; WX 278 ; N period ; B 87 0 214 106 ;
C 47 ; WX 278 ; N slash ; B -21 -19 452 737 ;
C 48 ; WX 556 ; N zero ; B 93 -19 608 703 ;
C 49 ; WX 556 ; N one ; B 207 0 508 703 ;
C 50 ; WX 556 ; N two ; B 26 0 617 703 ;
C 51 ; WX 556 ; N three ; B 75 -19 610 703 ;
C 52 ; WX 556 ; N four ; B 61 0 576 703 ;
C 53 ; WX 556 ; N five ; B 68 -19 621 688 ;
C 54 ; WX 556 ; N six ; B 91 -19 615 703 ;
C 55 ; WX 556 ; N seven ; B 137 0 669 688 ;
C 56 ; WX 556 ; N eight ; B 74 -19 607 703 ;
C 57 ; WX 556 ; N nine ; B 82 -19 609 703 ;
C 58 ; WX 278 ; N colon ; B 87 0 301 516 ;
C 59 ; WX 278 ; N semicolon ; B 56 -147 301 516 ;
C 60 ; WX 584 ; N less ; B 94 11 641 495 ;
C 61 ; WX 584 ; N equal ; B 63 115 628 390 ;
C 62 ; WX 584 ; N greater ; B 50 11 597 495 ;
C 63 ; WX 556 ; N question ; B 161 0 610 727 ;
C 64 ; WX 1015 ; N at ; B 215 -19 965 737 ;
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;
C 66 ; WX 667 ; N B ; B 74 0 712 718 ;
C 67 ; WX 722 ; N C ; B 108 -19 782 737 ;
C 68 ; WX 722 ; N D ; B 81 0 764 718 ;
C 69 ; WX 667 ; N E ; B 86 0 762 718 ;
C 70 ; WX 611 ; N F ; B 86 0 736 718 ;
C 71 ; WX 778 ; N G ; B 111 -19 799 737 ;
C 72 ; WX 722 ; N H ; B 77 0 799 718 ;
C 73 ; WX 278 ; N I ; B 91 0 341 718 ;
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C 80 ; WX 667 ; N P ; B 86 0 737 718 ;
C 81 ; WX 778 ; N Q ; B 105 -56 826 737 ;
C 82 ; WX 722 ; N R ; B 88 0 773 718 ;
C 83 ; WX 667 ; N S ; B 90 -19 713 737 ;
C 84 ; WX 611 ; N T ; B 148 0 750 718 ;
C 85 ; WX 722 ; N U ; B 123 -19 797 718 ;
C 86 ; WX 667 ; N V ; B 173 0 800 718 ;
C 87 ; WX 944 ; N W ; B 169 0 1081 718 ;
C 88 ; WX 667 ; N X ; B 19 0 790 718 ;
C 89 ; WX 667 ; N Y ; B 167 0 806 718 ;
C 90 ; WX 611 ; N Z ; B 23 0 741 718 ;
C 91 ; WX 278 ; N bracketleft ; B 21 -196 403 722 ;
C 92 ; WX 278 ; N backslash ; B 140 -19 291 737 ;
C 93 ; WX 278 ; N bracketright ; B -14 -196 368 722 ;
C 94 ; WX 469 ; N asciicircum ; B 42 264 539 688 ;
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;
C 96 ; WX 222 ; N quoteleft ; B 165 470 323 725 ;
C 97 ; WX 556 ; N a ; B 61 -15 559 538 ;
C 98 ; WX 556 ; N b ; B 58 -15 584 718 ;
C 99 ; WX 500 ; N c ; B 74 -15 553 538 ;
C 100 ; WX 556 ; N d ; B 84 -15 652 718 ;
C 101 ; WX 556 ; N e ; B 84 -15 578 538 ;
C 102 ; WX 278 ; N f ; B 86 0 416 728 ; L i fi ; L l fl ;
C 103 ; WX 556 ; N g ; B 42 -220 610 538 ;
C 104 ; WX 556 ; N h ; B 65 0 573 718 ;
C 105 ; WX 222 ; N i ; B 67 0 308 718 ;
C 106 ; WX 222 ; N j ; B -60 -210 308 718 ;
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C 112 ; WX 556 ; N p ; B 14 -207 584 538 ;
C 113 ; WX 556 ; N q ; B 84 -207 605 538 ;
C 114 ; WX 333 ; N r ; B 77 0 446 538 ;
C 115 ; WX 500 ; N s ; B 63 -15 529 538 ;
C 116 ; WX 278 ; N t ; B 102 -7 368 669 ;
C 117 ; WX 556 ; N u ; B 94 -15 600 523 ;
C 118 ; WX 500 ; N v ; B 119 0 603 523 ;
C 119 ; WX 722 ; N w ; B 125 0 820 523 ;
C 120 ; WX 500 ; N x ; B 11 0 594 523 ;
C 121 ; WX 500 ; N y ; B 15 -214 600 523 ;
C 122 ; WX 500 ; N z ; B 31 0 571 523 ;
C 123 ; WX 334 ; N braceleft ; B 92 -196 445 722 ;

C 124 ; WX 260 ; N bar ; B 46 -225 332 775 ;
C 125 ; WX 334 ; N braceright ; B 0 -196 354 722 ;
C 126 ; WX 584 ; N asciitilde ; B 111 180 580 326 ;
C 161 ; WX 333 ; N exclamdown ; B 77 -195 326 523 ;
C 162 ; WX 556 ; N cent ; B 95 -115 584 623 ;
C 163 ; WX 556 ; N sterling ; B 49 -16 634 718 ;
C 164 ; WX 167 ; N fraction ; B -170 -19 482 703 ;
C 165 ; WX 556 ; N yen ; B 81 0 699 688 ;
C 166 ; WX 556 ; N florin ; B -52 -207 654 737 ;
C 167 ; WX 556 ; N section ; B 76 -191 584 737 ;
C 168 ; WX 556 ; N currency ; B 60 99 646 603 ;
C 169 ; WX 191 ; N quotesingle ; B 157 463 285 718 ;
C 170 ; WX 333 ; N quotedblleft ; B 138 470 461 725 ;
C 171 ; WX 556 ; N guillemotleft ; B 146 108 554 446 ;
C 172 ; WX 333 ; N guilsinglleft ; B 137 108 340 446 ;
C 173 ; WX 333 ; N guilsinglright ; B 111 108 314 446 ;
C 174 ; WX 500 ; N fi ; B 86 0 587 728 ;
C 175 ; WX 500 ; N fl ; B 86 0 585 728 ;
C 177 ; WX 556 ; N endash ; B 51 240 623 313 ;
C 178 ; WX 556 ; N dagger ; B 135 -159 622 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 52 -159 623 718 ;
C 180 ; WX 278 ; N periodcentered ; B 129 190 257 315 ;
C 182 ; WX 537 ; N paragraph ; B 126 -173 650 718 ;
C 183 ; WX 350 ; N bullet ; B 91 202 413 517 ;
C 184 ; WX 222 ; N quotesinglbase ; B 21 -149 180 106 ;
C 185 ; WX 333 ; N quotedblbase ; B -6 -149 318 106 ;
C 186 ; WX 333 ; N quotedblright ; B 124 463 448 718 ;
C 187 ; WX 556 ; N guillemotright ; B 120 108 528 446 ;
C 188 ; WX 1000 ; N ellipsis ; B 115 0 908 106 ;
C 189 ; WX 1000 ; N perthousand ; B 88 -19 1029 703 ;
C 191 ; WX 611 ; N questiondown ; B 85 -201 534 525 ;
C 193 ; WX 333 ; N grave ; B 170 593 337 734 ;
C 194 ; WX 333 ; N acute ; B 248 593 475 734 ;
C 195 ; WX 333 ; N circumflex ; B 147 593 438 734 ;
C 196 ; WX 333 ; N tilde ; B 125 606 490 722 ;
C 197 ; WX 333 ; N macron ; B 143 627 468 684 ;
C 198 ; WX 333 ; N breve ; B 167 595 476 731 ;
C 199 ; WX 333 ; N dotaccent ; B 249 604 362 706 ;
C 200 ; WX 333 ; N dieresis ; B 168 604 443 706 ;
C 202 ; WX 333 ; N ring ; B 214 572 402 756 ;
C 203 ; WX 333 ; N cedilla ; B 2 -225 232 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 157 593 565 734 ;
C 206 ; WX 333 ; N ogonek ; B 43 -225 249 0 ;
C 207 ; WX 333 ; N caron ; B 177 593 468 734 ;
C 208 ; WX 1000 ; N emdash ; B 51 240 1067 313 ;
C 225 ; WX 1000 ; N AE ; B 8 0 1097 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 127 405 449 737 ;
C 232 ; WX 556 ; N Lslash ; B 41 0 555 718 ;

C 233 ; WX 778 ; N Oslash ; B 43 -19 890 737 ;
C 234 ; WX 1000 ; N OE ; B 98 -19 1116 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 141 405 468 737 ;
C 241 ; WX 889 ; N ae ; B 61 -15 909 538 ;
C 245 ; WX 278 ; N dotlessi ; B 95 0 294 523 ;
C 248 ; WX 222 ; N lslash ; B 41 0 347 718 ;
C 249 ; WX 611 ; N oslash ; B 29 -22 647 545 ;
C 250 ; WX 944 ; N oe ; B 83 -15 964 538 ;
C 251 ; WX 611 ; N germandbls ; B 67 -15 658 728 ;
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C -1 ; WX 722 ; N Uacute ; B 123 -19 797 929 ;
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C -1 ; WX 250 ; N commaaccent ; B 39 -225 172 -40 ;
C -1 ; WX 737 ; N copyright ; B 54 -19 837 737 ;
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C -1 ; WX 500 ; N scedilla ; B 63 -225 529 538 ;
C -1 ; WX 278 ; N iacute ; B 95 0 448 734 ;
C -1 ; WX 471 ; N lozenge ; B 88 0 540 728 ;
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C -1 ; WX 667 ; N Abreve ; B 14 0 685 926 ;
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C -1 ; WX 556 ; N uacute ; B 94 -15 600 734 ;
C -1 ; WX 611 ; N Tcaron ; B 148 0 750 929 ;
C -1 ; WX 476 ; N partialdiff ; B 41 -38 550 714 ;
C -1 ; WX 500 ; N ydieresis ; B 15 -214 600 706 ;
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C -1 ; WX 278 ; N icircumflex ; B 95 0 411 734 ;
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 762 929 ;
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C -1 ; WX 556 ; N edieresis ; B 84 -15 578 706 ;
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C -1 ; WX 556 ; N nacute ; B 65 0 587 734 ;
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C -1 ; WX 549 ; N greaterequal ; B 26 0 620 674 ;
C -1 ; WX 722 ; N Eth ; B 69 0 764 718 ;
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C -1 ; WX 222 ; N lcommaaccent ; B 25 -225 308 718 ;
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C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;
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C -1 ; WX 778 ; N Oacute ; B 105 -19 826 929 ;
C -1 ; WX 556 ; N oacute ; B 83 -14 587 734 ;
C -1 ; WX 556 ; N amacron ; B 61 -15 580 684 ;
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C -1 ; WX 278 ; N idieresis ; B 95 0 416 706 ;
C -1 ; WX 778 ; N Ocircumflex ; B 105 -19 826 929 ;
C -1 ; WX 722 ; N Ugrave ; B 123 -19 797 929 ;
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C -1 ; WX 333 ; N twosuperior ; B 64 281 449 703 ;
C -1 ; WX 778 ; N Odieresis ; B 105 -19 826 901 ;
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C -1 ; WX 278 ; N igrave ; B 95 0 310 734 ;
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C -1 ; WX 667 ; N Eogonek ; B 86 -220 762 718 ;
C -1 ; WX 556 ; N dcroat ; B 84 -15 689 718 ;
C -1 ; WX 834 ; N threequarters ; B 130 -19 861 703 ;
C -1 ; WX 667 ; N Scedilla ; B 90 -225 713 737 ;
C -1 ; WX 299 ; N lcaron ; B 67 0 464 718 ;
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C -1 ; WX 556 ; N Lacute ; B 76 0 555 929 ;
C -1 ; WX 1000 ; N trademark ; B 186 306 1056 718 ;
C -1 ; WX 556 ; N edotaccent ; B 84 -15 578 706 ;
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C -1 ; WX 278 ; N Imacron ; B 91 0 483 879 ;
C -1 ; WX 556 ; N Lcaron ; B 76 0 570 718 ;
C -1 ; WX 834 ; N onehalf ; B 114 -19 839 703 ;
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C -1 ; WX 556 ; N ocircumflex ; B 83 -14 585 734 ;
C -1 ; WX 556 ; N ntilde ; B 65 0 592 722 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 123 -19 801 929 ;
C -1 ; WX 667 ; N Eacute ; B 86 0 762 929 ;
C -1 ; WX 556 ; N emacron ; B 84 -15 580 684 ;
C -1 ; WX 556 ; N gbreve ; B 42 -220 610 731 ;
C -1 ; WX 834 ; N onequarter ; B 150 -19 802 703 ;
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C -1 ; WX 667 ; N Scommaaccent ; B 90 -225 713 737 ;
C -1 ; WX 778 ; N Ohungarumlaut ; B 105 -19 829 929 ;
C -1 ; WX 400 ; N degree ; B 169 411 468 703 ;
C -1 ; WX 556 ; N ograve ; B 83 -14 585 734 ;
C -1 ; WX 722 ; N Ccaron ; B 108 -19 782 929 ;

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C -1 ; WX 722 ; N Dcaron ; B 81 0 764 929 ;
C -1 ; WX 333 ; N rcommaaccent ; B 30 -225 446 538 ;
C -1 ; WX 722 ; N Ntilde ; B 76 0 799 917 ;
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C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 773 718 ;
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 555 718 ;
C -1 ; WX 667 ; N Atilde ; B 14 0 699 917 ;
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C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;
C -1 ; WX 778 ; N Otilde ; B 105 -19 826 917 ;
C -1 ; WX 500 ; N zdotaccent ; B 31 0 571 706 ;
C -1 ; WX 667 ; N Ecaron ; B 86 0 762 929 ;
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C -1 ; WX 584 ; N minus ; B 85 216 606 289 ;
C -1 ; WX 278 ; N Icircumflex ; B 91 0 452 929 ;
C -1 ; WX 556 ; N ncaron ; B 65 0 580 734 ;
C -1 ; WX 278 ; N tcommaaccent ; B 63 -225 368 669 ;
C -1 ; WX 584 ; N logicalnot ; B 106 108 628 390 ;
C -1 ; WX 556 ; N odieresis ; B 83 -14 585 706 ;
C -1 ; WX 556 ; N udieresis ; B 94 -15 600 706 ;
C -1 ; WX 549 ; N notequal ; B 34 -35 623 551 ;
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C -1 ; WX 556 ; N eth ; B 81 -15 617 737 ;
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EndCharMetrics

StartKernData

StartKernPairs 2705

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KPX yacute agrave -20
KPX yacute amacron -20
KPX yacute aogonek -20
KPX yacute aring -20
KPX yacute atilde -20
KPX yacute comma -100
KPX yacute e -20
KPX yacute eacute -20
KPX yacute ecaron -20
KPX yacute ecircumflex -20
KPX yacute edieresis -20
KPX yacute edotaccent -20
KPX yacute egrave -20
KPX yacute emacron -20
KPX yacute eogonek -20
KPX yacute o -20
KPX yacute oacute -20
KPX yacute ocircumflex -20
KPX yacute odieresis -20
KPX yacute ograve -20
KPX yacute ohungarumlaut -20
KPX yacute omacron -20
KPX yacute oslash -20
KPX yacute otilde -20
KPX yacute period -100
KPX ydieresis a -20
KPX ydieresis aacute -20
KPX ydieresis abreve -20

KPX ydieresis acircumflex -20
KPX ydieresis adieresis -20
KPX ydieresis agrave -20
KPX ydieresis amacron -20
KPX ydieresis aogonek -20
KPX ydieresis aring -20
KPX ydieresis atilde -20
KPX ydieresis comma -100
KPX ydieresis e -20
KPX ydieresis eacute -20
KPX ydieresis ecaron -20
KPX ydieresis ecircumflex -20
KPX ydieresis edieresis -20
KPX ydieresis edotaccent -20
KPX ydieresis egrave -20
KPX ydieresis emacron -20
KPX ydieresis eogonek -20
KPX ydieresis o -20
KPX ydieresis oacute -20
KPX ydieresis ocircumflex -20
KPX ydieresis odieresis -20
KPX ydieresis ograve -20
KPX ydieresis ohungarumlaut -20
KPX ydieresis omacron -20
KPX ydieresis oslash -20
KPX ydieresis otilde -20
KPX ydieresis period -100
KPX z e -15
KPX z eacute -15
KPX z ecaron -15
KPX z ecircumflex -15
KPX z edieresis -15
KPX z edotaccent -15
KPX z egrave -15
KPX z emacron -15
KPX z eogonek -15
KPX z o -15
KPX z oacute -15
KPX z ocircumflex -15
KPX z odieresis -15
KPX z ograve -15
KPX z ohungarumlaut -15
KPX z omacron -15
KPX z oslash -15
KPX z otilde -15
KPX zacute e -15
KPX zacute eacute -15
KPX zacute ecaron -15

KPX zacute ecircumflex -15
KPx zacute edieresis -15
KPx zacute edotaccent -15
KPx zacute egrave -15
KPx zacute emacron -15
KPx zacute eogonek -15
KPx zacute o -15
KPx zacute oacute -15
KPx zacute ocircumflex -15
KPx zacute odieresis -15
KPx zacute ograve -15
KPx zacute ohungarumlaut -15
KPx zacute omacron -15
KPx zacute oslash -15
KPx zacute otilde -15
KPx zcaron e -15
KPx zcaron eacute -15
KPx zcaron ecaron -15
KPx zcaron ecircumflex -15
KPx zcaron edieresis -15
KPx zcaron edotaccent -15
KPx zcaron egrave -15
KPx zcaron emacron -15
KPx zcaron eogonek -15
KPx zcaron o -15
KPx zcaron oacute -15
KPx zcaron ocircumflex -15
KPx zcaron odieresis -15
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KPx zcaron omacron -15
KPx zcaron oslash -15
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KPx zdotaccent edieresis -15
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KPx zdotaccent egrave -15
KPx zdotaccent emacron -15
KPx zdotaccent eogonek -15
KPx zdotaccent o -15
KPx zdotaccent oacute -15
KPx zdotaccent ocircumflex -15
KPx zdotaccent odieresis -15
KPx zdotaccent ograve -15
KPx zdotaccent ohungarumlaut -15

KPX zdotaccent omacron -15
KPX zdotaccent oslash -15
KPX zdotaccent otilde -15
EndKernPairs
EndKernData
EndFontMetrics

Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Helvetica-Oblique.afm

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Found in path(s):

* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/mozilla/javascript/resources/Messages.properties

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StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 15:14:13 1997

Comment UniqueID 43082

Comment VMusage 45775 55535

FontName ZapfDingbats

FullName ITC Zapf Dingbats

FamilyName ZapfDingbats

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet Special

FontBBox -1 -143 981 820

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme FontSpecific

StdHW 28

StdVW 90

StartCharMetrics 202

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;
C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;
C 35 ; WX 974 ; N a202 ; B 35 72 939 621 ;
C 36 ; WX 980 ; N a3 ; B 35 0 945 692 ;
C 37 ; WX 719 ; N a4 ; B 34 139 685 566 ;
C 38 ; WX 789 ; N a5 ; B 35 -14 755 705 ;
C 39 ; WX 790 ; N a119 ; B 35 -14 755 705 ;
C 40 ; WX 791 ; N a118 ; B 35 -13 761 705 ;
C 41 ; WX 690 ; N a117 ; B 34 138 655 553 ;
C 42 ; WX 960 ; N a11 ; B 35 123 925 568 ;
C 43 ; WX 939 ; N a12 ; B 35 134 904 559 ;
C 44 ; WX 549 ; N a13 ; B 29 -11 516 705 ;
C 45 ; WX 855 ; N a14 ; B 34 59 820 632 ;
C 46 ; WX 911 ; N a15 ; B 35 50 876 642 ;
C 47 ; WX 933 ; N a16 ; B 35 139 899 550 ;
C 48 ; WX 911 ; N a105 ; B 35 50 876 642 ;
C 49 ; WX 945 ; N a17 ; B 35 139 909 553 ;
C 50 ; WX 974 ; N a18 ; B 35 104 938 587 ;
C 51 ; WX 755 ; N a19 ; B 34 -13 721 705 ;
C 52 ; WX 846 ; N a20 ; B 36 -14 811 705 ;
C 53 ; WX 762 ; N a21 ; B 35 0 727 692 ;
C 54 ; WX 761 ; N a22 ; B 35 0 727 692 ;
C 55 ; WX 571 ; N a23 ; B -1 -68 571 661 ;
C 56 ; WX 677 ; N a24 ; B 36 -13 642 705 ;
C 57 ; WX 763 ; N a25 ; B 35 0 728 692 ;
C 58 ; WX 760 ; N a26 ; B 35 0 726 692 ;
C 59 ; WX 759 ; N a27 ; B 35 0 725 692 ;
C 60 ; WX 754 ; N a28 ; B 35 0 720 692 ;
C 61 ; WX 494 ; N a6 ; B 35 0 460 692 ;
C 62 ; WX 552 ; N a7 ; B 35 0 517 692 ;
C 63 ; WX 537 ; N a8 ; B 35 0 503 692 ;
C 64 ; WX 577 ; N a9 ; B 35 96 542 596 ;
C 65 ; WX 692 ; N a10 ; B 35 -14 657 705 ;
C 66 ; WX 786 ; N a29 ; B 35 -14 751 705 ;
C 67 ; WX 788 ; N a30 ; B 35 -14 752 705 ;
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C 69 ; WX 790 ; N a32 ; B 35 -14 756 705 ;
C 70 ; WX 793 ; N a33 ; B 35 -13 759 705 ;
C 71 ; WX 794 ; N a34 ; B 35 -13 759 705 ;
C 72 ; WX 816 ; N a35 ; B 35 -14 782 705 ;
C 73 ; WX 823 ; N a36 ; B 35 -14 787 705 ;
C 74 ; WX 789 ; N a37 ; B 35 -14 754 705 ;
C 75 ; WX 841 ; N a38 ; B 35 -14 807 705 ;
C 76 ; WX 823 ; N a39 ; B 35 -14 789 705 ;
C 77 ; WX 833 ; N a40 ; B 35 -14 798 705 ;
C 78 ; WX 816 ; N a41 ; B 35 -13 782 705 ;

C 79 ; WX 831 ; N a42 ; B 35 -14 796 705 ;
C 80 ; WX 923 ; N a43 ; B 35 -14 888 705 ;
C 81 ; WX 744 ; N a44 ; B 35 0 710 692 ;
C 82 ; WX 723 ; N a45 ; B 35 0 688 692 ;
C 83 ; WX 749 ; N a46 ; B 35 0 714 692 ;
C 84 ; WX 790 ; N a47 ; B 34 -14 756 705 ;
C 85 ; WX 792 ; N a48 ; B 35 -14 758 705 ;
C 86 ; WX 695 ; N a49 ; B 35 -14 661 706 ;
C 87 ; WX 776 ; N a50 ; B 35 -6 741 699 ;
C 88 ; WX 768 ; N a51 ; B 35 -7 734 699 ;
C 89 ; WX 792 ; N a52 ; B 35 -14 757 705 ;
C 90 ; WX 759 ; N a53 ; B 35 0 725 692 ;
C 91 ; WX 707 ; N a54 ; B 35 -13 672 704 ;
C 92 ; WX 708 ; N a55 ; B 35 -14 672 705 ;
C 93 ; WX 682 ; N a56 ; B 35 -14 647 705 ;
C 94 ; WX 701 ; N a57 ; B 35 -14 666 705 ;
C 95 ; WX 826 ; N a58 ; B 35 -14 791 705 ;
C 96 ; WX 815 ; N a59 ; B 35 -14 780 705 ;
C 97 ; WX 789 ; N a60 ; B 35 -14 754 705 ;
C 98 ; WX 789 ; N a61 ; B 35 -14 754 705 ;
C 99 ; WX 707 ; N a62 ; B 34 -14 673 705 ;
C 100 ; WX 687 ; N a63 ; B 36 0 651 692 ;
C 101 ; WX 696 ; N a64 ; B 35 0 661 691 ;
C 102 ; WX 689 ; N a65 ; B 35 0 655 692 ;
C 103 ; WX 786 ; N a66 ; B 34 -14 751 705 ;
C 104 ; WX 787 ; N a67 ; B 35 -14 752 705 ;
C 105 ; WX 713 ; N a68 ; B 35 -14 678 705 ;
C 106 ; WX 791 ; N a69 ; B 35 -14 756 705 ;
C 107 ; WX 785 ; N a70 ; B 36 -14 751 705 ;
C 108 ; WX 791 ; N a71 ; B 35 -14 757 705 ;
C 109 ; WX 873 ; N a72 ; B 35 -14 838 705 ;
C 110 ; WX 761 ; N a73 ; B 35 0 726 692 ;
C 111 ; WX 762 ; N a74 ; B 35 0 727 692 ;
C 112 ; WX 762 ; N a203 ; B 35 0 727 692 ;
C 113 ; WX 759 ; N a75 ; B 35 0 725 692 ;
C 114 ; WX 759 ; N a204 ; B 35 0 725 692 ;
C 115 ; WX 892 ; N a76 ; B 35 0 858 705 ;
C 116 ; WX 892 ; N a77 ; B 35 -14 858 692 ;
C 117 ; WX 788 ; N a78 ; B 35 -14 754 705 ;
C 118 ; WX 784 ; N a79 ; B 35 -14 749 705 ;
C 119 ; WX 438 ; N a81 ; B 35 -14 403 705 ;
C 120 ; WX 138 ; N a82 ; B 35 0 104 692 ;
C 121 ; WX 277 ; N a83 ; B 35 0 242 692 ;
C 122 ; WX 415 ; N a84 ; B 35 0 380 692 ;
C 123 ; WX 392 ; N a97 ; B 35 263 357 705 ;
C 124 ; WX 392 ; N a98 ; B 34 263 357 705 ;
C 125 ; WX 668 ; N a99 ; B 35 263 633 705 ;
C 126 ; WX 668 ; N a100 ; B 36 263 634 705 ;

C 128 ; WX 390 ; N a89 ; B 35 -14 356 705 ;
C 129 ; WX 390 ; N a90 ; B 35 -14 355 705 ;
C 130 ; WX 317 ; N a93 ; B 35 0 283 692 ;
C 131 ; WX 317 ; N a94 ; B 35 0 283 692 ;
C 132 ; WX 276 ; N a91 ; B 35 0 242 692 ;
C 133 ; WX 276 ; N a92 ; B 35 0 242 692 ;
C 134 ; WX 509 ; N a205 ; B 35 0 475 692 ;
C 135 ; WX 509 ; N a85 ; B 35 0 475 692 ;
C 136 ; WX 410 ; N a206 ; B 35 0 375 692 ;
C 137 ; WX 410 ; N a86 ; B 35 0 375 692 ;
C 138 ; WX 234 ; N a87 ; B 35 -14 199 705 ;
C 139 ; WX 234 ; N a88 ; B 35 -14 199 705 ;
C 140 ; WX 334 ; N a95 ; B 35 0 299 692 ;
C 141 ; WX 334 ; N a96 ; B 35 0 299 692 ;
C 161 ; WX 732 ; N a101 ; B 35 -143 697 806 ;
C 162 ; WX 544 ; N a102 ; B 56 -14 488 706 ;
C 163 ; WX 544 ; N a103 ; B 34 -14 508 705 ;
C 164 ; WX 910 ; N a104 ; B 35 40 875 651 ;
C 165 ; WX 667 ; N a106 ; B 35 -14 633 705 ;
C 166 ; WX 760 ; N a107 ; B 35 -14 726 705 ;
C 167 ; WX 760 ; N a108 ; B 0 121 758 569 ;
C 168 ; WX 776 ; N a112 ; B 35 0 741 705 ;
C 169 ; WX 595 ; N a111 ; B 34 -14 560 705 ;
C 170 ; WX 694 ; N a110 ; B 35 -14 659 705 ;
C 171 ; WX 626 ; N a109 ; B 34 0 591 705 ;
C 172 ; WX 788 ; N a120 ; B 35 -14 754 705 ;
C 173 ; WX 788 ; N a121 ; B 35 -14 754 705 ;
C 174 ; WX 788 ; N a122 ; B 35 -14 754 705 ;
C 175 ; WX 788 ; N a123 ; B 35 -14 754 705 ;
C 176 ; WX 788 ; N a124 ; B 35 -14 754 705 ;
C 177 ; WX 788 ; N a125 ; B 35 -14 754 705 ;
C 178 ; WX 788 ; N a126 ; B 35 -14 754 705 ;
C 179 ; WX 788 ; N a127 ; B 35 -14 754 705 ;
C 180 ; WX 788 ; N a128 ; B 35 -14 754 705 ;
C 181 ; WX 788 ; N a129 ; B 35 -14 754 705 ;
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C 184 ; WX 788 ; N a132 ; B 35 -14 754 705 ;
C 185 ; WX 788 ; N a133 ; B 35 -14 754 705 ;
C 186 ; WX 788 ; N a134 ; B 35 -14 754 705 ;
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C 188 ; WX 788 ; N a136 ; B 35 -14 754 705 ;
C 189 ; WX 788 ; N a137 ; B 35 -14 754 705 ;
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C 191 ; WX 788 ; N a139 ; B 35 -14 754 705 ;
C 192 ; WX 788 ; N a140 ; B 35 -14 754 705 ;
C 193 ; WX 788 ; N a141 ; B 35 -14 754 705 ;
C 194 ; WX 788 ; N a142 ; B 35 -14 754 705 ;

C 195 ; WX 788 ; N a143 ; B 35 -14 754 705 ;
C 196 ; WX 788 ; N a144 ; B 35 -14 754 705 ;
C 197 ; WX 788 ; N a145 ; B 35 -14 754 705 ;
C 198 ; WX 788 ; N a146 ; B 35 -14 754 705 ;
C 199 ; WX 788 ; N a147 ; B 35 -14 754 705 ;
C 200 ; WX 788 ; N a148 ; B 35 -14 754 705 ;
C 201 ; WX 788 ; N a149 ; B 35 -14 754 705 ;
C 202 ; WX 788 ; N a150 ; B 35 -14 754 705 ;
C 203 ; WX 788 ; N a151 ; B 35 -14 754 705 ;
C 204 ; WX 788 ; N a152 ; B 35 -14 754 705 ;
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C 206 ; WX 788 ; N a154 ; B 35 -14 754 705 ;
C 207 ; WX 788 ; N a155 ; B 35 -14 754 705 ;
C 208 ; WX 788 ; N a156 ; B 35 -14 754 705 ;
C 209 ; WX 788 ; N a157 ; B 35 -14 754 705 ;
C 210 ; WX 788 ; N a158 ; B 35 -14 754 705 ;
C 211 ; WX 788 ; N a159 ; B 35 -14 754 705 ;
C 212 ; WX 894 ; N a160 ; B 35 58 860 634 ;
C 213 ; WX 838 ; N a161 ; B 35 152 803 540 ;
C 214 ; WX 1016 ; N a163 ; B 34 152 981 540 ;
C 215 ; WX 458 ; N a164 ; B 35 -127 422 820 ;
C 216 ; WX 748 ; N a196 ; B 35 94 698 597 ;
C 217 ; WX 924 ; N a165 ; B 35 140 890 552 ;
C 218 ; WX 748 ; N a192 ; B 35 94 698 597 ;
C 219 ; WX 918 ; N a166 ; B 35 166 884 526 ;
C 220 ; WX 927 ; N a167 ; B 35 32 892 660 ;
C 221 ; WX 928 ; N a168 ; B 35 129 891 562 ;
C 222 ; WX 928 ; N a169 ; B 35 128 893 563 ;
C 223 ; WX 834 ; N a170 ; B 35 155 799 537 ;
C 224 ; WX 873 ; N a171 ; B 35 93 838 599 ;
C 225 ; WX 828 ; N a172 ; B 35 104 791 588 ;
C 226 ; WX 924 ; N a173 ; B 35 98 889 594 ;
C 227 ; WX 924 ; N a162 ; B 35 98 889 594 ;
C 228 ; WX 917 ; N a174 ; B 35 0 882 692 ;
C 229 ; WX 930 ; N a175 ; B 35 84 896 608 ;
C 230 ; WX 931 ; N a176 ; B 35 84 896 608 ;
C 231 ; WX 463 ; N a177 ; B 35 -99 429 791 ;
C 232 ; WX 883 ; N a178 ; B 35 71 848 623 ;
C 233 ; WX 836 ; N a179 ; B 35 44 802 648 ;
C 234 ; WX 836 ; N a193 ; B 35 44 802 648 ;
C 235 ; WX 867 ; N a180 ; B 35 101 832 591 ;
C 236 ; WX 867 ; N a199 ; B 35 101 832 591 ;
C 237 ; WX 696 ; N a181 ; B 35 44 661 648 ;
C 238 ; WX 696 ; N a200 ; B 35 44 661 648 ;
C 239 ; WX 874 ; N a182 ; B 35 77 840 619 ;
C 241 ; WX 874 ; N a201 ; B 35 73 840 615 ;
C 242 ; WX 760 ; N a183 ; B 35 0 725 692 ;
C 243 ; WX 946 ; N a184 ; B 35 160 911 533 ;

C 244 ; WX 771 ; N a197 ; B 34 37 736 655 ;
C 245 ; WX 865 ; N a185 ; B 35 207 830 481 ;
C 246 ; WX 771 ; N a194 ; B 34 37 736 655 ;
C 247 ; WX 888 ; N a198 ; B 34 -19 853 712 ;
C 248 ; WX 967 ; N a186 ; B 35 124 932 568 ;
C 249 ; WX 888 ; N a195 ; B 34 -19 853 712 ;
C 250 ; WX 831 ; N a187 ; B 35 113 796 579 ;
C 251 ; WX 873 ; N a188 ; B 36 118 838 578 ;
C 252 ; WX 927 ; N a189 ; B 35 150 891 542 ;
C 253 ; WX 970 ; N a190 ; B 35 76 931 616 ;
C 254 ; WX 918 ; N a191 ; B 34 99 884 593 ;

EndCharMetrics
EndFontMetrics

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Comment Creation Date: Thu May 1 12:56:55 1997

Comment UniqueID 43067

Comment VMusage 47727 58752

FontName Times-Italic

FullName Times Italic

FamilyName Times

Weight Medium

ItalicAngle -15.5

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -169 -217 1010 883

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 653

XHeight 441

Ascender 683

Descender -217

StdHW 32

StdVW 76

StartCharMetrics 315

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 39 -11 302 667 ;

C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;

C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;

C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;
C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;
C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;
C 44 ; WX 250 ; N comma ; B -4 -129 135 101 ;
C 45 ; WX 333 ; N hyphen ; B 49 192 282 255 ;
C 46 ; WX 250 ; N period ; B 27 -11 138 100 ;
C 47 ; WX 278 ; N slash ; B -65 -18 386 666 ;
C 48 ; WX 500 ; N zero ; B 32 -7 497 676 ;
C 49 ; WX 500 ; N one ; B 49 0 409 676 ;
C 50 ; WX 500 ; N two ; B 12 0 452 676 ;
C 51 ; WX 500 ; N three ; B 15 -7 465 676 ;
C 52 ; WX 500 ; N four ; B 1 0 479 676 ;
C 53 ; WX 500 ; N five ; B 15 -7 491 666 ;
C 54 ; WX 500 ; N six ; B 30 -7 521 686 ;
C 55 ; WX 500 ; N seven ; B 75 -8 537 666 ;
C 56 ; WX 500 ; N eight ; B 30 -7 493 676 ;
C 57 ; WX 500 ; N nine ; B 23 -17 492 676 ;
C 58 ; WX 333 ; N colon ; B 50 -11 261 441 ;
C 59 ; WX 333 ; N semicolon ; B 27 -129 261 441 ;
C 60 ; WX 675 ; N less ; B 84 -8 592 514 ;
C 61 ; WX 675 ; N equal ; B 86 120 590 386 ;
C 62 ; WX 675 ; N greater ; B 84 -8 592 514 ;
C 63 ; WX 500 ; N question ; B 132 -12 472 664 ;
C 64 ; WX 920 ; N at ; B 118 -18 806 666 ;
C 65 ; WX 611 ; N A ; B -51 0 564 668 ;
C 66 ; WX 611 ; N B ; B -8 0 588 653 ;
C 67 ; WX 667 ; N C ; B 66 -18 689 666 ;
C 68 ; WX 722 ; N D ; B -8 0 700 653 ;
C 69 ; WX 611 ; N E ; B -1 0 634 653 ;
C 70 ; WX 611 ; N F ; B 8 0 645 653 ;
C 71 ; WX 722 ; N G ; B 52 -18 722 666 ;
C 72 ; WX 722 ; N H ; B -8 0 767 653 ;
C 73 ; WX 333 ; N I ; B -8 0 384 653 ;
C 74 ; WX 444 ; N J ; B -6 -18 491 653 ;
C 75 ; WX 667 ; N K ; B 7 0 722 653 ;
C 76 ; WX 556 ; N L ; B -8 0 559 653 ;
C 77 ; WX 833 ; N M ; B -18 0 873 653 ;
C 78 ; WX 667 ; N N ; B -20 -15 727 653 ;
C 79 ; WX 722 ; N O ; B 60 -18 699 666 ;
C 80 ; WX 611 ; N P ; B 0 0 605 653 ;
C 81 ; WX 722 ; N Q ; B 59 -182 699 666 ;
C 82 ; WX 611 ; N R ; B -13 0 588 653 ;
C 83 ; WX 500 ; N S ; B 17 -18 508 667 ;

C 84 ; WX 556 ; N T ; B 59 0 633 653 ;
C 85 ; WX 722 ; N U ; B 102 -18 765 653 ;
C 86 ; WX 611 ; N V ; B 76 -18 688 653 ;
C 87 ; WX 833 ; N W ; B 71 -18 906 653 ;
C 88 ; WX 611 ; N X ; B -29 0 655 653 ;
C 89 ; WX 556 ; N Y ; B 78 0 633 653 ;
C 90 ; WX 556 ; N Z ; B -6 0 606 653 ;
C 91 ; WX 389 ; N bracketleft ; B 21 -153 391 663 ;
C 92 ; WX 278 ; N backslash ; B -41 -18 319 666 ;
C 93 ; WX 389 ; N bracketright ; B 12 -153 382 663 ;
C 94 ; WX 422 ; N asciicircum ; B 0 301 422 666 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 171 436 310 666 ;
C 97 ; WX 500 ; N a ; B 17 -11 476 441 ;
C 98 ; WX 500 ; N b ; B 23 -11 473 683 ;
C 99 ; WX 444 ; N c ; B 30 -11 425 441 ;
C 100 ; WX 500 ; N d ; B 15 -13 527 683 ;
C 101 ; WX 444 ; N e ; B 31 -11 412 441 ;
C 102 ; WX 278 ; N f ; B -147 -207 424 678 ; L i f i ; L l f l ;
C 103 ; WX 500 ; N g ; B 8 -206 472 441 ;
C 104 ; WX 500 ; N h ; B 19 -9 478 683 ;
C 105 ; WX 278 ; N i ; B 49 -11 264 654 ;
C 106 ; WX 278 ; N j ; B -124 -207 276 654 ;
C 107 ; WX 444 ; N k ; B 14 -11 461 683 ;
C 108 ; WX 278 ; N l ; B 41 -11 279 683 ;
C 109 ; WX 722 ; N m ; B 12 -9 704 441 ;
C 110 ; WX 500 ; N n ; B 14 -9 474 441 ;
C 111 ; WX 500 ; N o ; B 27 -11 468 441 ;
C 112 ; WX 500 ; N p ; B -75 -205 469 441 ;
C 113 ; WX 500 ; N q ; B 25 -209 483 441 ;
C 114 ; WX 389 ; N r ; B 45 0 412 441 ;
C 115 ; WX 389 ; N s ; B 16 -13 366 442 ;
C 116 ; WX 278 ; N t ; B 37 -11 296 546 ;
C 117 ; WX 500 ; N u ; B 42 -11 475 441 ;
C 118 ; WX 444 ; N v ; B 21 -18 426 441 ;
C 119 ; WX 667 ; N w ; B 16 -18 648 441 ;
C 120 ; WX 444 ; N x ; B -27 -11 447 441 ;
C 121 ; WX 444 ; N y ; B -24 -206 426 441 ;
C 122 ; WX 389 ; N z ; B -2 -81 380 428 ;
C 123 ; WX 400 ; N braceleft ; B 51 -177 407 687 ;
C 124 ; WX 275 ; N bar ; B 105 -217 171 783 ;
C 125 ; WX 400 ; N braceright ; B -7 -177 349 687 ;
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;
C 161 ; WX 389 ; N exclamdown ; B 59 -205 322 473 ;
C 162 ; WX 500 ; N cent ; B 77 -143 472 560 ;
C 163 ; WX 500 ; N sterling ; B 10 -6 517 670 ;
C 164 ; WX 167 ; N fraction ; B -169 -10 337 676 ;
C 165 ; WX 500 ; N yen ; B 27 0 603 653 ;

C 166 ; WX 500 ; N florin ; B 25 -182 507 682 ;
C 167 ; WX 500 ; N section ; B 53 -162 461 666 ;
C 168 ; WX 500 ; N currency ; B -22 53 522 597 ;
C 169 ; WX 214 ; N quotesingle ; B 132 421 241 666 ;
C 170 ; WX 556 ; N quotedblleft ; B 166 436 514 666 ;
C 171 ; WX 500 ; N guillemotleft ; B 53 37 445 403 ;
C 172 ; WX 333 ; N guilsinglleft ; B 51 37 281 403 ;
C 173 ; WX 333 ; N guilsinglright ; B 52 37 282 403 ;
C 174 ; WX 500 ; N fi ; B -141 -207 481 681 ;
C 175 ; WX 500 ; N fl ; B -141 -204 518 682 ;
C 177 ; WX 500 ; N endash ; B -6 197 505 243 ;
C 178 ; WX 500 ; N dagger ; B 101 -159 488 666 ;
C 179 ; WX 500 ; N daggerdbl ; B 22 -143 491 666 ;
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;
C 182 ; WX 523 ; N paragraph ; B 55 -123 616 653 ;
C 183 ; WX 350 ; N bullet ; B 40 191 310 461 ;
C 184 ; WX 333 ; N quotesinglbase ; B 44 -129 183 101 ;
C 185 ; WX 556 ; N quotedblbase ; B 57 -129 405 101 ;
C 186 ; WX 556 ; N quotedblright ; B 151 436 499 666 ;
C 187 ; WX 500 ; N guillemotright ; B 55 37 447 403 ;
C 188 ; WX 889 ; N ellipsis ; B 57 -11 762 100 ;
C 189 ; WX 1000 ; N perthousand ; B 25 -19 1010 706 ;
C 191 ; WX 500 ; N questiondown ; B 28 -205 368 471 ;
C 193 ; WX 333 ; N grave ; B 121 492 311 664 ;
C 194 ; WX 333 ; N acute ; B 180 494 403 664 ;
C 195 ; WX 333 ; N circumflex ; B 91 492 385 661 ;
C 196 ; WX 333 ; N tilde ; B 100 517 427 624 ;
C 197 ; WX 333 ; N macron ; B 99 532 411 583 ;
C 198 ; WX 333 ; N breve ; B 117 492 418 650 ;
C 199 ; WX 333 ; N dotaccent ; B 207 548 305 646 ;
C 200 ; WX 333 ; N dieresis ; B 107 548 405 646 ;
C 202 ; WX 333 ; N ring ; B 155 492 355 691 ;
C 203 ; WX 333 ; N cedilla ; B -30 -217 182 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 93 494 486 664 ;
C 206 ; WX 333 ; N ogonek ; B 20 -169 203 40 ;
C 207 ; WX 333 ; N caron ; B 121 492 426 661 ;
C 208 ; WX 889 ; N emdash ; B -6 197 894 243 ;
C 225 ; WX 889 ; N AE ; B -27 0 911 653 ;
C 227 ; WX 276 ; N ordfeminine ; B 42 406 352 676 ;
C 232 ; WX 556 ; N Lslash ; B -8 0 559 653 ;
C 233 ; WX 722 ; N Oslash ; B 60 -105 699 722 ;
C 234 ; WX 944 ; N OE ; B 49 -8 964 666 ;
C 235 ; WX 310 ; N ordmasculine ; B 67 406 362 676 ;
C 241 ; WX 667 ; N ae ; B 23 -11 640 441 ;
C 245 ; WX 278 ; N dotlessi ; B 49 -11 235 441 ;
C 248 ; WX 278 ; N lslash ; B 41 -11 312 683 ;
C 249 ; WX 500 ; N oslash ; B 28 -135 469 554 ;
C 250 ; WX 667 ; N oe ; B 20 -12 646 441 ;

C 251 ; WX 500 ; N germandbls ; B -168 -207 493 679 ;
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C -1 ; WX 444 ; N eacute ; B 31 -11 459 664 ;
C -1 ; WX 500 ; N abreve ; B 17 -11 502 650 ;
C -1 ; WX 500 ; N uhungarumlaut ; B 42 -11 580 664 ;
C -1 ; WX 444 ; N ecaron ; B 31 -11 482 661 ;
C -1 ; WX 556 ; N Ydieresis ; B 78 0 633 818 ;
C -1 ; WX 675 ; N divide ; B 86 -11 590 517 ;
C -1 ; WX 556 ; N Yacute ; B 78 0 633 876 ;
C -1 ; WX 611 ; N Acircumflex ; B -51 0 564 873 ;
C -1 ; WX 500 ; N aacute ; B 17 -11 487 664 ;
C -1 ; WX 722 ; N Ucircumflex ; B 102 -18 765 873 ;
C -1 ; WX 444 ; N yacute ; B -24 -206 459 664 ;
C -1 ; WX 389 ; N scommaaccent ; B 16 -217 366 442 ;
C -1 ; WX 444 ; N ecircumflex ; B 31 -11 441 661 ;
C -1 ; WX 722 ; N Uring ; B 102 -18 765 883 ;
C -1 ; WX 722 ; N Udieresis ; B 102 -18 765 818 ;
C -1 ; WX 500 ; N aogonek ; B 17 -169 476 441 ;
C -1 ; WX 722 ; N Uacute ; B 102 -18 765 876 ;
C -1 ; WX 500 ; N uogonek ; B 42 -169 477 441 ;
C -1 ; WX 611 ; N Edieresis ; B -1 0 634 818 ;
C -1 ; WX 722 ; N Dcroat ; B -8 0 700 653 ;
C -1 ; WX 250 ; N commaaccent ; B 8 -217 133 -50 ;
C -1 ; WX 760 ; N copyright ; B 41 -18 719 666 ;
C -1 ; WX 611 ; N Emacron ; B -1 0 634 795 ;
C -1 ; WX 444 ; N ccaron ; B 30 -11 482 661 ;
C -1 ; WX 500 ; N aring ; B 17 -11 476 691 ;
C -1 ; WX 667 ; N Ncommaaccent ; B -20 -187 727 653 ;
C -1 ; WX 278 ; N lacute ; B 41 -11 395 876 ;
C -1 ; WX 500 ; N agrave ; B 17 -11 476 664 ;
C -1 ; WX 556 ; N Tcommaaccent ; B 59 -217 633 653 ;
C -1 ; WX 667 ; N Cacute ; B 66 -18 690 876 ;
C -1 ; WX 500 ; N atilde ; B 17 -11 511 624 ;
C -1 ; WX 611 ; N Edotaccent ; B -1 0 634 818 ;
C -1 ; WX 389 ; N scaron ; B 16 -13 454 661 ;
C -1 ; WX 389 ; N scedilla ; B 16 -217 366 442 ;
C -1 ; WX 278 ; N iacute ; B 49 -11 355 664 ;
C -1 ; WX 471 ; N lozenge ; B 13 0 459 724 ;
C -1 ; WX 611 ; N Rcaron ; B -13 0 588 873 ;
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C -1 ; WX 500 ; N ucircumflex ; B 42 -11 475 661 ;
C -1 ; WX 500 ; N acircumflex ; B 17 -11 476 661 ;
C -1 ; WX 611 ; N Amacron ; B -51 0 564 795 ;
C -1 ; WX 389 ; N rcaron ; B 45 0 434 661 ;
C -1 ; WX 444 ; N ccedilla ; B 30 -217 425 441 ;
C -1 ; WX 556 ; N Zdotaccent ; B -6 0 606 818 ;
C -1 ; WX 611 ; N Thorn ; B 0 0 569 653 ;
C -1 ; WX 722 ; N Omacron ; B 60 -18 699 795 ;

C -1 ; WX 611 ; N Racute ; B -13 0 588 876 ;
C -1 ; WX 500 ; N Sacute ; B 17 -18 508 876 ;
C -1 ; WX 544 ; N dcaron ; B 15 -13 658 683 ;
C -1 ; WX 722 ; N Umacron ; B 102 -18 765 795 ;
C -1 ; WX 500 ; N uring ; B 42 -11 475 691 ;
C -1 ; WX 300 ; N threesuperior ; B 43 268 339 676 ;
C -1 ; WX 722 ; N Ograve ; B 60 -18 699 876 ;
C -1 ; WX 611 ; N Agrave ; B -51 0 564 876 ;
C -1 ; WX 611 ; N Abreve ; B -51 0 564 862 ;
C -1 ; WX 675 ; N multiply ; B 93 8 582 497 ;
C -1 ; WX 500 ; N uacute ; B 42 -11 477 664 ;
C -1 ; WX 556 ; N Tcaron ; B 59 0 633 873 ;
C -1 ; WX 476 ; N partialdiff ; B 17 -38 459 710 ;
C -1 ; WX 444 ; N ydieresis ; B -24 -206 441 606 ;
C -1 ; WX 667 ; N Nacute ; B -20 -15 727 876 ;
C -1 ; WX 278 ; N icircumflex ; B 33 -11 327 661 ;
C -1 ; WX 611 ; N Ecircumflex ; B -1 0 634 873 ;
C -1 ; WX 500 ; N adieresis ; B 17 -11 489 606 ;
C -1 ; WX 444 ; N edieresis ; B 31 -11 451 606 ;
C -1 ; WX 444 ; N cacute ; B 30 -11 459 664 ;
C -1 ; WX 500 ; N nacute ; B 14 -9 477 664 ;
C -1 ; WX 500 ; N umacron ; B 42 -11 485 583 ;
C -1 ; WX 667 ; N Ncaron ; B -20 -15 727 873 ;
C -1 ; WX 333 ; N Iacute ; B -8 0 433 876 ;
C -1 ; WX 675 ; N plusminus ; B 86 0 590 506 ;
C -1 ; WX 275 ; N brokenbar ; B 105 -142 171 708 ;
C -1 ; WX 760 ; N registered ; B 41 -18 719 666 ;
C -1 ; WX 722 ; N Gbreve ; B 52 -18 722 862 ;
C -1 ; WX 333 ; N Idotaccent ; B -8 0 384 818 ;
C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;
C -1 ; WX 611 ; N Egrave ; B -1 0 634 876 ;
C -1 ; WX 389 ; N racute ; B 45 0 431 664 ;
C -1 ; WX 500 ; N omacron ; B 27 -11 495 583 ;
C -1 ; WX 556 ; N Zacute ; B -6 0 606 876 ;
C -1 ; WX 556 ; N Zcaron ; B -6 0 606 873 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 658 ;
C -1 ; WX 722 ; N Eth ; B -8 0 700 653 ;
C -1 ; WX 667 ; N Ccedilla ; B 66 -217 689 666 ;
C -1 ; WX 278 ; N lcommaaccent ; B 22 -217 279 683 ;
C -1 ; WX 300 ; N tcaron ; B 37 -11 407 681 ;
C -1 ; WX 444 ; N eogonek ; B 31 -169 412 441 ;
C -1 ; WX 722 ; N Uogonek ; B 102 -184 765 653 ;
C -1 ; WX 611 ; N Aacute ; B -51 0 564 876 ;
C -1 ; WX 611 ; N Adieresis ; B -51 0 564 818 ;
C -1 ; WX 444 ; N egrave ; B 31 -11 412 664 ;
C -1 ; WX 389 ; N zacute ; B -2 -81 431 664 ;
C -1 ; WX 278 ; N iogonek ; B 49 -169 264 654 ;
C -1 ; WX 722 ; N Oacute ; B 60 -18 699 876 ;

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C -1 ; WX 500 ; N amacron ; B 17 -11 495 583 ;
C -1 ; WX 389 ; N sacute ; B 16 -13 431 664 ;
C -1 ; WX 278 ; N idieresis ; B 49 -11 352 606 ;
C -1 ; WX 722 ; N Ocircumflex ; B 60 -18 699 873 ;
C -1 ; WX 722 ; N Ugrave ; B 102 -18 765 876 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 500 ; N thorn ; B -75 -205 469 683 ;
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C -1 ; WX 722 ; N Odieresis ; B 60 -18 699 818 ;
C -1 ; WX 500 ; N mu ; B -30 -209 497 428 ;
C -1 ; WX 278 ; N igrave ; B 49 -11 284 664 ;
C -1 ; WX 500 ; N ohungarumlaut ; B 27 -11 590 664 ;
C -1 ; WX 611 ; N Eogonek ; B -1 -169 634 653 ;
C -1 ; WX 500 ; N dcroat ; B 15 -13 572 683 ;
C -1 ; WX 750 ; N threequarters ; B 23 -10 736 676 ;
C -1 ; WX 500 ; N Scedilla ; B 17 -217 508 667 ;
C -1 ; WX 300 ; N lcaron ; B 41 -11 407 683 ;
C -1 ; WX 667 ; N Kcommaaccent ; B 7 -217 722 653 ;
C -1 ; WX 556 ; N Lacute ; B -8 0 559 876 ;
C -1 ; WX 980 ; N trademark ; B 30 247 957 653 ;
C -1 ; WX 444 ; N edotaccent ; B 31 -11 412 606 ;
C -1 ; WX 333 ; N Igrave ; B -8 0 384 876 ;
C -1 ; WX 333 ; N Imacron ; B -8 0 441 795 ;
C -1 ; WX 611 ; N Lcaron ; B -8 0 586 653 ;
C -1 ; WX 750 ; N onehalf ; B 34 -10 749 676 ;
C -1 ; WX 549 ; N lessequal ; B 26 0 523 658 ;
C -1 ; WX 500 ; N ocircumflex ; B 27 -11 468 661 ;
C -1 ; WX 500 ; N ntilde ; B 14 -9 476 624 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 102 -18 765 876 ;
C -1 ; WX 611 ; N Eacute ; B -1 0 634 876 ;
C -1 ; WX 444 ; N emacron ; B 31 -11 457 583 ;
C -1 ; WX 500 ; N gbreve ; B 8 -206 487 650 ;
C -1 ; WX 750 ; N onequarter ; B 33 -10 736 676 ;
C -1 ; WX 500 ; N Scaron ; B 17 -18 520 873 ;
C -1 ; WX 500 ; N Scommaaccent ; B 17 -217 508 667 ;
C -1 ; WX 722 ; N Ohungarumlaut ; B 60 -18 699 876 ;
C -1 ; WX 400 ; N degree ; B 101 390 387 676 ;
C -1 ; WX 500 ; N ograve ; B 27 -11 468 664 ;
C -1 ; WX 667 ; N Ccaron ; B 66 -18 689 873 ;
C -1 ; WX 500 ; N ugrave ; B 42 -11 475 664 ;
C -1 ; WX 453 ; N radical ; B 2 -60 452 768 ;
C -1 ; WX 722 ; N Dcaron ; B -8 0 700 873 ;
C -1 ; WX 389 ; N rcommaaccent ; B -3 -217 412 441 ;
C -1 ; WX 667 ; N Ntilde ; B -20 -15 727 836 ;
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C -1 ; WX 611 ; N Rcommaaccent ; B -13 -187 588 653 ;
C -1 ; WX 556 ; N Lcommaaccent ; B -8 -217 559 653 ;

C -1 ; WX 611 ; N Atilde ; B -51 0 566 836 ;
C -1 ; WX 611 ; N Aogonek ; B -51 -169 566 668 ;
C -1 ; WX 611 ; N Aring ; B -51 0 564 883 ;
C -1 ; WX 722 ; N Otilde ; B 60 -18 699 836 ;
C -1 ; WX 389 ; N zdotaccent ; B -2 -81 380 606 ;
C -1 ; WX 611 ; N Ecaron ; B -1 0 634 873 ;
C -1 ; WX 333 ; N Iogonek ; B -8 -169 384 653 ;
C -1 ; WX 444 ; N kcommaaccent ; B 14 -187 461 683 ;
C -1 ; WX 675 ; N minus ; B 86 220 590 286 ;
C -1 ; WX 333 ; N Icircumflex ; B -8 0 425 873 ;
C -1 ; WX 500 ; N ncaron ; B 14 -9 510 661 ;
C -1 ; WX 278 ; N tcommaaccent ; B 2 -217 296 546 ;
C -1 ; WX 675 ; N logicalnot ; B 86 108 590 386 ;
C -1 ; WX 500 ; N odieresis ; B 27 -11 489 606 ;
C -1 ; WX 500 ; N udieresis ; B 42 -11 479 606 ;
C -1 ; WX 549 ; N notequal ; B 12 -29 537 541 ;
C -1 ; WX 500 ; N gcommaaccent ; B 8 -206 472 706 ;
C -1 ; WX 500 ; N eth ; B 27 -11 482 683 ;
C -1 ; WX 389 ; N zcaron ; B -2 -81 434 661 ;
C -1 ; WX 500 ; N ncommaaccent ; B 14 -187 474 441 ;
C -1 ; WX 300 ; N onesuperior ; B 43 271 284 676 ;
C -1 ; WX 278 ; N imacron ; B 46 -11 311 583 ;
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2321

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KPX A Ccaron -30

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KPX A Gbreve -35

KPX A Gcommaaccent -35

KPX A O -40

KPX A Oacute -40

KPX A Ocircumflex -40

KPX A Odieresis -40

KPX A Ograve -40

KPX A Ohungarumlaut -40

KPX A Omacron -40

KPX A Oslash -40

KPX A Otilde -40

KPX A Q -40

KPX A T -37

KPX A Tcaron -37

KPX A Tcommaaccent -37

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KPX A Uacute -50

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KPX Ydieresis Ohungarumlaut -15
KPX Ydieresis Omacron -15
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KPX Ydieresis uogonek -92
KPX Ydieresis uring -92
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KPX space Ydieresis -75
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KPX v period -74
KPX w comma -74
KPX w period -74
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KPX y period -55
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EndKernPairs
EndKernData
EndFontMetrics

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

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:43:52 1997

Comment UniqueID 43052

Comment VMusage 37169 48194

FontName Helvetica-Bold

FullName Helvetica Bold

FamilyName Helvetica

Weight Bold

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -170 -228 1003 962

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StdHW 118

StdVW 140

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 90 0 244 718 ;

C 34 ; WX 474 ; N quotedbl ; B 98 447 376 718 ;

C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;

C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;

C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;

C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;

C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;

C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;

C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;

C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;

C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;

C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;

C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;

C 46 ; WX 278 ; N period ; B 64 0 214 146 ;

C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;

C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;

C 49 ; WX 556 ; N one ; B 69 0 378 710 ;

C 50 ; WX 556 ; N two ; B 26 0 511 710 ;

C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;
C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;
C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;
C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;
C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;
C 58 ; WX 333 ; N colon ; B 92 0 242 512 ;
C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;
C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;
C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;
C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;
C 63 ; WX 611 ; N question ; B 60 0 556 727 ;
C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;
C 66 ; WX 722 ; N B ; B 76 0 669 718 ;
C 67 ; WX 722 ; N C ; B 44 -19 684 737 ;
C 68 ; WX 722 ; N D ; B 76 0 685 718 ;
C 69 ; WX 667 ; N E ; B 76 0 621 718 ;
C 70 ; WX 611 ; N F ; B 76 0 587 718 ;
C 71 ; WX 778 ; N G ; B 44 -19 713 737 ;
C 72 ; WX 722 ; N H ; B 71 0 651 718 ;
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C 74 ; WX 556 ; N J ; B 22 -18 484 718 ;
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C 77 ; WX 833 ; N M ; B 69 0 765 718 ;
C 78 ; WX 722 ; N N ; B 69 0 654 718 ;
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C 81 ; WX 778 ; N Q ; B 44 -52 737 737 ;
C 82 ; WX 722 ; N R ; B 76 0 677 718 ;
C 83 ; WX 667 ; N S ; B 39 -19 629 737 ;
C 84 ; WX 611 ; N T ; B 14 0 598 718 ;
C 85 ; WX 722 ; N U ; B 72 -19 651 718 ;
C 86 ; WX 667 ; N V ; B 19 0 648 718 ;
C 87 ; WX 944 ; N W ; B 16 0 929 718 ;
C 88 ; WX 667 ; N X ; B 14 0 653 718 ;
C 89 ; WX 667 ; N Y ; B 15 0 653 718 ;
C 90 ; WX 611 ; N Z ; B 25 0 586 718 ;
C 91 ; WX 333 ; N bracketleft ; B 63 -196 309 722 ;
C 92 ; WX 278 ; N backslash ; B -33 -19 311 737 ;
C 93 ; WX 333 ; N bracketright ; B 24 -196 270 722 ;
C 94 ; WX 584 ; N asciicircum ; B 62 323 522 698 ;
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;
C 96 ; WX 278 ; N quoteleft ; B 69 454 209 727 ;
C 97 ; WX 556 ; N a ; B 29 -14 527 546 ;
C 98 ; WX 611 ; N b ; B 61 -14 578 718 ;

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C 102 ; WX 333 ; N f ; B 10 0 318 727 ; L i fi ; L l fl ;
C 103 ; WX 611 ; N g ; B 40 -217 553 546 ;
C 104 ; WX 611 ; N h ; B 65 0 546 718 ;
C 105 ; WX 278 ; N i ; B 69 0 209 725 ;
C 106 ; WX 278 ; N j ; B 3 -214 209 725 ;
C 107 ; WX 556 ; N k ; B 69 0 562 718 ;
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C 109 ; WX 889 ; N m ; B 64 0 826 546 ;
C 110 ; WX 611 ; N n ; B 65 0 546 546 ;
C 111 ; WX 611 ; N o ; B 34 -14 578 546 ;
C 112 ; WX 611 ; N p ; B 62 -207 578 546 ;
C 113 ; WX 611 ; N q ; B 34 -207 552 546 ;
C 114 ; WX 389 ; N r ; B 64 0 373 546 ;
C 115 ; WX 556 ; N s ; B 30 -14 519 546 ;
C 116 ; WX 333 ; N t ; B 10 -6 309 676 ;
C 117 ; WX 611 ; N u ; B 66 -14 545 532 ;
C 118 ; WX 556 ; N v ; B 13 0 543 532 ;
C 119 ; WX 778 ; N w ; B 10 0 769 532 ;
C 120 ; WX 556 ; N x ; B 15 0 541 532 ;
C 121 ; WX 556 ; N y ; B 10 -214 539 532 ;
C 122 ; WX 500 ; N z ; B 20 0 480 532 ;
C 123 ; WX 389 ; N braceleft ; B 48 -196 365 722 ;
C 124 ; WX 280 ; N bar ; B 84 -225 196 775 ;
C 125 ; WX 389 ; N braceright ; B 24 -196 341 722 ;
C 126 ; WX 584 ; N asciitilde ; B 61 163 523 343 ;
C 161 ; WX 333 ; N exclamdown ; B 90 -186 244 532 ;
C 162 ; WX 556 ; N cent ; B 34 -118 524 628 ;
C 163 ; WX 556 ; N sterling ; B 28 -16 541 718 ;
C 164 ; WX 167 ; N fraction ; B -170 -19 336 710 ;
C 165 ; WX 556 ; N yen ; B -9 0 565 698 ;
C 166 ; WX 556 ; N florin ; B -10 -210 516 737 ;
C 167 ; WX 556 ; N section ; B 34 -184 522 727 ;
C 168 ; WX 556 ; N currency ; B -3 76 559 636 ;
C 169 ; WX 238 ; N quotesingle ; B 70 447 168 718 ;
C 170 ; WX 500 ; N quotedblleft ; B 64 454 436 727 ;
C 171 ; WX 556 ; N guillemotleft ; B 88 76 468 484 ;
C 172 ; WX 333 ; N guilsinglleft ; B 83 76 250 484 ;
C 173 ; WX 333 ; N guilsinglright ; B 83 76 250 484 ;
C 174 ; WX 611 ; N fi ; B 10 0 542 727 ;
C 175 ; WX 611 ; N fl ; B 10 0 542 727 ;
C 177 ; WX 556 ; N endash ; B 0 227 556 333 ;
C 178 ; WX 556 ; N dagger ; B 36 -171 520 718 ;
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C 180 ; WX 278 ; N periodcentered ; B 58 172 220 334 ;
C 182 ; WX 556 ; N paragraph ; B -8 -191 539 700 ;

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C 186 ; WX 500 ; N quotedblright ; B 64 445 436 718 ;
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C 188 ; WX 1000 ; N ellipsis ; B 92 0 908 146 ;
C 189 ; WX 1000 ; N perthousand ; B -3 -19 1003 710 ;
C 191 ; WX 611 ; N questiondown ; B 55 -195 551 532 ;
C 193 ; WX 333 ; N grave ; B -23 604 225 750 ;
C 194 ; WX 333 ; N acute ; B 108 604 356 750 ;
C 195 ; WX 333 ; N circumflex ; B -10 604 343 750 ;
C 196 ; WX 333 ; N tilde ; B -17 610 350 737 ;
C 197 ; WX 333 ; N macron ; B -6 604 339 678 ;
C 198 ; WX 333 ; N breve ; B -2 604 335 750 ;
C 199 ; WX 333 ; N dotaccent ; B 104 614 230 729 ;
C 200 ; WX 333 ; N dieresis ; B 6 614 327 729 ;
C 202 ; WX 333 ; N ring ; B 59 568 275 776 ;
C 203 ; WX 333 ; N cedilla ; B 6 -228 245 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 9 604 486 750 ;
C 206 ; WX 333 ; N ogonek ; B 71 -228 304 0 ;
C 207 ; WX 333 ; N caron ; B -10 604 343 750 ;
C 208 ; WX 1000 ; N emdash ; B 0 227 1000 333 ;
C 225 ; WX 1000 ; N AE ; B 5 0 954 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 22 401 347 737 ;
C 232 ; WX 611 ; N Lslash ; B -20 0 583 718 ;
C 233 ; WX 778 ; N Oslash ; B 33 -27 744 745 ;
C 234 ; WX 1000 ; N OE ; B 37 -19 961 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 6 401 360 737 ;
C 241 ; WX 889 ; N ae ; B 29 -14 858 546 ;
C 245 ; WX 278 ; N dotlessi ; B 69 0 209 532 ;
C 248 ; WX 278 ; N lslash ; B -18 0 296 718 ;
C 249 ; WX 611 ; N oslash ; B 22 -29 589 560 ;
C 250 ; WX 944 ; N oe ; B 34 -14 912 546 ;
C 251 ; WX 611 ; N germandbls ; B 69 -14 579 731 ;
C -1 ; WX 278 ; N Idieresis ; B -21 0 300 915 ;
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C -1 ; WX 611 ; N uacute ; B 66 -14 545 750 ;
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C -1 ; WX 778 ; N Oacute ; B 44 -19 734 936 ;
C -1 ; WX 611 ; N oacute ; B 34 -14 578 750 ;
C -1 ; WX 556 ; N amacron ; B 29 -14 527 678 ;
C -1 ; WX 556 ; N sacute ; B 30 -14 519 750 ;
C -1 ; WX 278 ; N idieresis ; B -21 0 300 729 ;
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C -1 ; WX 722 ; N Ugrave ; B 72 -19 651 936 ;
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C -1 ; WX 611 ; N Lacute ; B 76 0 583 936 ;
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C -1 ; WX 611 ; N gbreve ; B 40 -217 553 750 ;
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C -1 ; WX 667 ; N Scaron ; B 39 -19 629 936 ;
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KPX A Ohungarumlaut -40

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KPX A Oslash -40

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KPX A Q -40

KPX A T -90

KPX A Tcaron -90

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1.667 wsd14j 1.6.2

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1.668 giflib 4.1.6-3.1.e16

1.668.1 Available under license :

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1.669 curl 7.19.7

1.669.1 Available under license :

License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

OpenSSL

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GnuTLS

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libressl

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c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

MIT Kerberos

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Heimdal

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libidn

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.
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1.670 gconf 2.28.0

1.670.1 Available under license :

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Version 2, June 1991

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1.671 commons-collections 3.2.2

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1.672 sed 4.2.1

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1.674 eclipse-ui 3.6.1.M20100826 1330

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```
* /opt/ws_local/PERMITS_SQL/1066754946_1595254330.39/0/enunciate-jersey-1-19-sources-
jar/org/codehaus/enunciate/modules/jersey/config/JerseyRuleSet.java
* /opt/ws_local/PERMITS_SQL/1066754946_1595254330.39/0/enunciate-jersey-1-19-sources-
jar/org/codehaus/enunciate/modules/jersey/JerseyValidator.java
* /opt/ws_local/PERMITS_SQL/1066754946_1595254330.39/0/enunciate-jersey-1-19-sources-
jar/org/codehaus/enunciate/modules/jersey/JerseyDeploymentModule.java
```

1.676 netcat-openbsd 1.84-22.el6

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1.677 consolekit 0.4.1-6.el6

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```
## -*-makefile-*-
```

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

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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) $@

## End FreeBSD-specific setup

```

1.679 plymouth 0.8.3 27.el6.centos.1

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1.683 libjpeg 6b

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The Independent JPEG Group's JPEG software

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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

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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 wjjpgcom.
*.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

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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.

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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](ftp://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](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/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](ftp://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/>. 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

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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

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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

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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.

1.684 websocket-server 1.1.FR

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```

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1.686 haproxy 1.8.13

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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

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1.687 sysstat 9.0.4

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1.688 httpcomponents-httpclient 4.2.1

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scheduling/TriggerContext.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
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jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/assembly/MBeanInfoAssembler.java
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jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jndi/JndiTemplateEditor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/support/MessageSourceAccessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/access/ContextBeanFactoryReference.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/access/DefaultLocatorFactory.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/validation/BindingErrorProcessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/validation/BindingResultUtils.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/RemoteLookupFailureException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/ResourceLoaderAware.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scheduling/SchedulingAwareRunnable.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/glassfish/ClassTransformerAdapter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/validation/MapBindingResult.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/JmxException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-

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jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/event/EventPublicationInterceptor.java
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*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary AdminServiceFactory API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the MBeanServer for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossTranslatorAdapter.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/oc4j/OC4JClassPreprocessorAdapter.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/oc4j/OC4JLoadTimeWeaver.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/support/AbstractEnterpriseBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ui/context/Theme.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotification.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/support/AbstractMessageDrivenBean.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/ApplicationContextAware.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationResult.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/support/AbstractJmsMessageDrivenBean.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/config/LocalStatelessSessionBeanDefinitionParser.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ui/context/ThemeSource.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/soap/SoapFaultException.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jndi/JndiLookupFailureException.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/support/AbstractStatefulSessionBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/event/ApplicationContextEvent.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scripting/ScriptCompilationException.java

* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ui/context/support/SimpleTheme.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/stereotype/Controller.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/ejb/support/AbstractStatelessSessionBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java

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* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/config/ContextNamespaceHandler.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/remoting/support/RemoteAccessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-

```

jar/org/springframework/validation/BindException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/validation/FieldError.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/access/InvalidInvocationException.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/export/assembly/AbstractConfigurableMBeanInfoAssembler.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jndi/JndiCallback.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /opt/cola/permits/1111238308_1606882922.02/0/spring-context-3-0-7-release-sources-1-
jar/org/springframework/jmx/access/ConnectorDelegate.java

```

1.690 addressing 1.6.2

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1.691 spring-web 3.0.7.RELEASE

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```
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-  
jar/org/springframework/web/context/ServletConfigAware.java  
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-  
jar/org/springframework/web/multipart/MultipartFile.java  
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-  
jar/org/springframework/web/bind/ServletRequestBindingException.java
```

* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/FacesContextUtils.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/TagUtils.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/HttpSessionRequiredException.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/commons/CommonsMultipartFile.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/request/WebRequestInterceptor.java
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- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/annotation/InitBinder.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/MultipartException.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/annotation/ModelAttribute.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/HttpSessionMutexListener.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/request/SessionScope.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/support/SessionAttributeStore.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/HttpRequestHandler.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/filter/CharacterEncodingFilter.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/support/SessionStatus.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/SpringBeanVariableResolver.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/IntrospectorCleanupListener.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/MultipartResolver.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/support/WebBindingInitializer.java
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jar/org/springframework/web/filter/DelegatingFilterProxy.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/remoting/caucho/SimpleBurlapServiceExporter.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/remoting/jaxws/SimpleHttpServerJaxWsServiceExporter.java
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/remoting/jaxws/SimpleJaxWsServiceExporter.java
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jar/org/springframework/web/context/support/ServletContextFactoryBean.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/client/ResponseErrorHandler.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/context/ContextCleanupListener.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/converter/HttpMessageConversionException.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/util/UriTemplate.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/client/HttpClientErrorException.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/converter/json/package-info.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/multipart/MultipartRequest.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/multipart/support/MultipartFilter.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/bind/annotation/ExceptionHandler.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/client/RestOperations.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/client/CommonsClientHttpRequest.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/bind/annotation/support/HandlerMethodInvoker.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/bind/ServletRequestParamPropertyValues.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/client/HttpMessageConverterExtractor.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/http/client/ClientHttpRequest.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-
jar/org/springframework/web/context/request/WebRequest.java
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- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/remoting/caucho/BurlapServiceExporter.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/ServletRequestUtils.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/JavaScriptUtils.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/support/RequestHandledEvent.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientInterceptor.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
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- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/Log4jWebConfigurer.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/HtmlUtils.java
- * /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/filter/GenericFilterBean.java

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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/request/Log4jNestedDiagnosticContextInterceptor.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/annotation/support/HandlerMethodInvocationException.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/filter/OncePerRequestFilter.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/jsf/DelegatingVariableResolver.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/bind/EscapedErrors.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/util/WebAppRootListener.java
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* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /opt/cola/permits/1110675613_1606843493.96/0/spring-web-3-0-7-release-sources-2-jar/org/springframework/web/context/request/AbstractRequestAttributes.java

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1.693 mina 2.0.5

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1.696 tiles-api 3.0.8

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basecvt.pod

gcd.pod

invmod.pod

isprime.pod

lap.pod

mpi-test.pod

prime.txt

prng.pod

This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

Chandler Carruth <chandlerc@google.com>

Chris Prince <cprince@google.com>

Chris Taylor <taylorc@google.com>

Dan Egnor <egnor@google.com>

Eric Roman <eroman@chromium.org>

Hady Zalek <hady.zalek@gmail.com>

Jeffrey Yasskin <jyasskin@google.com>

Ji Sigursson <joi@google.com>

Keir Mierle <mierle@gmail.com>

Keith Ray <keith.ray@gmail.com>

Kenton Varda <kenton@google.com>

Manuel Klimek <klimek@google.com>

Markus Heule <markus.heule@gmail.com>

Mika Raento <mikie@iki.fi>

Mikls Fazekas <mfazekas@szemafor.com>

Pasi Valminen <pasi.valminen@gmail.com>

Patrick Hanna <phanna@google.com>

Patrick Riley <pfr@google.com>

Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
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Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
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1.698 asm 1.0.2

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
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<html>
<head>
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<meta content="text/html; charset=iso-8859-1" http-equiv="Content-Type">
<meta content="en" http-equiv="Content-Language">
<title>ASM - License</title>
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<meta name="Keywords" content="ASM,bytecode,manipulation,Java,open,source,free,software,BSD">
<meta name="Reply-to" content="webmaster@ow2.org">
<meta name="Owner" content="OW2">
<meta name="Robots" content="index, follow">
<meta content="asm-team" name="author">
<meta content="asm-team@objectweb.org" name="email">
<script src="/js/objectweb.js" type="text/javascript"></script>
<link type="text/css" href="/common.css" rel="stylesheet" id="stylesheet">
<link type="image/x-icon" href="/images/favicon.ico" rel="icon">
<link type="image/x-icon" href="/images/favicon.ico" rel="shortcut icon">
</head>
<body marginheight="0" marginwidth="0" topmargin="0" leftmargin="0"
onload="MM_preloadImages('/images/menu/boutonok2.gif','/images/menu/boutonsearch2.gif','/images/menu/bout
```

```

onprint2.gif', './images/menu/boutonsubscribe2.gif)" bgcolor="#FFFFFF" class="bodyproject">
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<tr>
<td valign="top" width="500"><a href="http://www.ow2.org/"></a></td><td valign="top">
<table cellpadding="0" cellspacing="0" width="100%" border="0">
<tr>
<td valign="top"></td><td valign="top"
width="150"></td>
</tr>
<tr>
<td valign="top">
<table cellpadding="5" cellspacing="0" border="0">
<tr>
<td valign="top"></td><td valign="top"></td><td valign="top"></td><td valign="top"></td>
</tr>
</table>
</td><td style="line-height: 20px;" valign="top" width="150">
<form target="_blank" action="http://www.google.com/custom" method="get">
<input name="cof"
value="S:http://www.ow2.org/GL:0;AH:center;LH:70;L:http://www.ow2.org/xwiki/skins/ow2/logo.png;LW:500;A
WFID:48faba182d01f379;" type="hidden"><input name="domains" value="ow2.org;mail-archive.ow2.org"
type="hidden"><input name="sitesearch" value="ow2.org" type="hidden">
<table rowspan="0" colspan="0">
<tr>
<td><input onblur="if (this.value=='') this.value='search'" onfocus="this.value='' value="" maxlength="255"
size="10" name="q" type="text"></td><td><input alt="Submit"
onmouseover="MM_swapImage('search','./images/menu/boutonsearch2.gif',1)"
onmouseout="MM_swapImgRestore()" src="./images/menu/boutonsearch1.gif" id="search" name="sa"
type="image"></td><td><a alt="Submit"
onmouseover="MM_swapImage('print','./images/menu/boutonprint2.gif',1)"
onmouseout="MM_swapImgRestore()" target="_blank" href="license_print.html"></a></td>
</tr>
</table>
<p class="glose">
<strong><a href="http://www.google.com/advanced_search?q=+site:ow2.org" target="_blank"
class="lienglose">Advanced Search</a></strong> - Powered by Google</p>
</form>
</td>
</tr>
</table>
</td>
</tr>
<tr>
<td width="100%" bgcolor="#FF6600" valign="bottom" colspan="2">
   <a target="_blank" class="barre" href="http://www.ow2.org/">&nbsp;&nbsp;&nbsp;Consortium&nbsp;&nbsp;&nbsp;</a>
   &nbsp;&nbsp;<a target="_blank" class="barre"

```

```

href="http://www.ow2.org/xwiki/bin/view/Activities/Fundamentals">&nbsp;Activities&nbsp;</a>
&nbsp;&nbsp;&nbsp;<a target="_blank" class="barre"
href="http://www.ow2.org/xwiki/bin/view/Activities/Projects">&nbsp;Projects&nbsp;</a>
&nbsp;&nbsp;&nbsp;<a target="_blank" class="barre" href="http://forge.objectweb.org/">&nbsp;Forge&nbsp;</a>
&nbsp;&nbsp;&nbsp;<a target="_blank" class="barre"
href="http://www.ow2.org/view/Events/">&nbsp;Events&nbsp;</a></td>
</tr>
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width="160"><br>
<p style="font-size: 16px; font-weight: bold; color: #FF6600; border-bottom: 4px solid #0099CC">ASM</p>
<br>
<div class="OW2menu">
<div class="OW2menutitre">ASM</div>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/index.html">Home</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/download/index.html">Download</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/eclipse/index.html">Eclipse plugin</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="http://download.forge.objectweb.org/asm/asm4-
guide.pdf">User Guide</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="http://mail.ow2.org/www/info/asm">Mailing Lists</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/license.html">License</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/history.html">History</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">ASMDEX</div>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/asmdex-index.html">Home</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/download/asmdex-index.html">Download</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="http://mail.ow2.org/www/info/asm">Mailing Lists</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/asmdex-license.html">License</a>
<br>
&nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/asmdex-history.html">History</a>
<br>
</div>
<br>
<div class="OW2menu">

```

```

<div class="OW2menutitre">Developers' Corner</div>
  &middot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/projects/asm/">ObjectWeb
Forge Site</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self"
href="http://forge.objectweb.org/plugins/scmsvn/index.php?group_id=23">SVN Repository</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/tracker/?group_id=23">Issue
Tracker</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/doc/developer-guide.html">Developer Guide</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">About</div>
  &middot;&nbsp;<a class="menu" target="_self" href="/users.html">Users</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/team.html">Team</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="mailto:asm-team@objectweb.org">Contacts</a>
<br>
</div>
<br>
</td><td align="left" width="100%" valign="top">
<h1>Project License</h1>

```

```

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```

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</pre>

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</td><td valign="top" width="10"></td>
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<tr>
<td valign="top" width="20"></td><td valign="top"
width="160"></td><td valign="top"><br>
<address>Copyright &copy; 1999-2009, <a href="http://www.ow2.org/">OW2 Consortium</a> | <a
href="http://wiki.opalval.ow2.org/xwiki/bin/view/Main/Contact">contact</a> | <a
href="mailto:webmaster@ow2.org">webmaster</a> | Last modified at 2016-12-23 11:07 AM</address>
</td><td valign="top" width="10"></td>
</tr>
</table>
<br>
</body>
</html>
<!DOCTYPE html>
<html>
<head>
```

```
<title>Scala License | The Scala Programming Language</title>
```

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

```
<link rel="icon" type="image/png" href="/resources/favicon.ico">
```

```
<link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">
```

```
<!-- prettify CSS (corresponding js at footer)-->
```

```
<link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />
```

```
<!-- Bootstrap CSS -->
```

```
<link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />
```

```
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
rel='stylesheet' type='text/css'>
```

```

<!-- Custom stylesheet -->
<link rel="stylesheet" href="/resources/css/main.css" type="text/css" />

<!-- Typekit (should stay at top of page, do not move to footer)-->
<script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

<!-- Atom feeds -->
<link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
<link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />

</head>
<body>

<div class="darkstrip"></div>

<div class="darkbluetopbar">
<div class="container" style="height: 100%">
<div class="navbar-wrap">
<div class="container" style="position: relative; height: 100%;">
<div class="scala-logo">
<a href="/index.html"></a>
</div>
<ul class="nav">
<li><a href="/documentation/">Documentation</a></li>
<li><a href="/download/">Download</a></li>
<li><a href="/community/">Community</a></li>
<li><a href="/contribute/">Contribute</a></li>
<li id="source-code" >
<a href="http://github.com/scala/scala"></a>
<div class="toptip">Source Code</div>
</li>
<li id="scala-lang-twitter">
<a href="http://twitter.com/scala_lang"></a>
<div class="toptip">Scala on Twitter</div>
</li>
</ul>

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

<div class="midbluebar">
<div class="container">

```

<h1 id="page-title">Scala License</h1>

</div>

</div>

<div class="page-container">

<div class="container" style="min-height: 540px;">

<div class="main-page-column">

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</div>

<div class="sidebar">

<div class="sidebar-inner">

<div class="contents">Contents</div>


```
<div id="toc"></div>
<br/>
<div class="alert-info">
  <a href="/contribute/documentation.html#updating-scala-langorg"><p><strong>Problem with this
page?</strong>
  Please help us fix it!</p></a>
</div>
</div>
</div>
<div style="clear:both"></div>

</div>
</div>
```

```
<div class="footer">
<div class="container">
  <ul>
    <li><h5>Documentation</h5></li>
    <li><a href="/documentation/getting-started.html">Getting Started</a></li>
    <li><a href="http://www.scala-lang.org/api/current/index.html#package">API</a></li>
    <li><a href="http://docs.scala-lang.org/overviews/">Overviews/Guides</a></li>
    <li><a href="http://docs.scala-lang.org/tutorials/">Tutorials</a></li>
    <li><a href="/files/archive/spec/2.12/">Language Specification</a></li>
  </ul>
  <ul>
    <li><h5>Download</h5></li>
    <li><a href="/download/">Current Version</a></li>
    <li><a href="/download/all.html">All Versions</a></li>
  </ul>
  <ul>
    <li><h5>Community</h5></li>
    <li><a href="/community/">Community</a></li>
    <li><a href="/community/index.html#mailing-lists">Mailing Lists</a></li>
    <li><a href="/community/index.html#chat-rooms">Chat Rooms & More</a></li>
    <li><a href="/community/index.html#community-libraries-and-tools">Libraries and Tools</a></li>
    <li><a href="https://scala.epfl.ch/">The Scala Center</a></li>
  </ul>
  <ul>
    <li><h5>Contribute</h5></li>
    <li><a href="/contribute">How to Help</a></li>
    <li><a href="/contribute/bug-reporting-guide.html">Report an Issue</a></li>
  </ul>
  <ul>
    <li><h5>Scala</h5></li>
    <li><a href="/blog">Blog</a></li>
    <li><a href="/news">Archive</a></li>
    <li><a href="/conduct.html">Code of Conduct</a></li>
  </ul>
```

```

    <li><a href="/license.html">License</a></li>
</ul>
</div>
<div class="container">
  <div class="copyright">
    <a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"></a>
    <p style="float: left;"><br/>Copyright &copy; 2002-<span class="current-year"></span> École Polytechnique
Fédérale de Lausanne
    (EPFL)<br/> Lausanne, Switzerland</p>
  </div>
  <div class="scala-logo-footer">
    
  </div>
</div> <!-- container -->
</div> <!-- footer -->

<!-- prettify js -->
<script src="/resources/js/vendor/prettify/prettify.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/prettify/lang-scala.js" type="text/javascript" ></script>

<!-- jquery js -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js" integrity="sha384-
lifoBlbdwizTl3Yoe612uhI3AcOam/QtWkozF7SuiACaf5UJl5reOYu4MigVxrCH"
crossorigin="anonymous"></script>

<!-- modernizr js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/modernizr/2.6.2/modernizr.min.js" integrity="sha256-
zyXsGPIj9MUc4RKKQuZEzcIkTYj4nRpRRA2dvlH07+g=" crossorigin="anonymous"></script>

<!-- retina js -->
<script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>

<!-- backstretch js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-backstretch/2.0.4/jquery.backstretch.min.js"
integrity="sha256-V52dl3OFjoY+fYAkifhLJ7f1V7mZAKPGCQoWzoQxrEU="
crossorigin="anonymous"></script>

<!-- Bootstrap JS -->
<script src="https://maxcdn.bootstrapcdn.com/twitter-bootstrap/2.2.1/js/bootstrap.min.js" integrity="sha384-
qJ8AGIuPqPo4I2zhyRYO6vQaJrGBbTpLiXGihDsGpfMCHJD0IKH0gkPQTtoGD5ek3"
crossorigin="anonymous"></script>

<!-- table of contents JS -->
<script src="/resources/js/vendor/toc.js" type="text/javascript" ></script>
<script type="text/javascript">
$(document).ready(function(){

```

```

$('#toc').toc({exclude: 'h1, h5, h6', context: '', autoId: true, numerate: false});
function moveScroller() {
  if ($(".sidebar").length == 0)
    return;
  var a = function() {
    var topOfScroll = $(window).scrollTop();
    var topOfSidebar = $(".sidebar").offset().top;
    var sidebarInner = $(".sidebar-inner");
    var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
    var topOfFooter = $(".footer").offset().top - 10;
    var footerHeight = $(".footer").outerHeight();
    if (topOfScroll > topOfSidebar) {
      if (bottomOfSidebarInner > topOfFooter) {
        sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
      } else {
        sidebarInner.css({position:"fixed",top:"10px",bottom:""});
      }
    } else {
      sidebarInner.css({position:"relative",top:""});
    }
  };
  $(window).scroll(a);
}
moveScroller();
})
</script>

<!-- Custom javascript -->
<script src="/resources/js/main.js" type="text/javascript"></script>
</body>
</html>

```

1.699 codemodel 2.3-SNAPSHOT

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1.700 tcsh 6.17-24.el6

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People who have contributed to tcsh for win32 with bugfixes, functionality, and other useful pieces of code. If I've left you out, please let me know !

(In alphabetical order)

Tom Kludy	(tom.kludy@citrix.com)
Yarek Kowalik	(Yarek.Kowalik@Sitraka.com)
Edward Lam	
Matt Landau	
Avner Lottem	(avner.lottem@intel.com)
blucas (?)	(blucas@broadcom.com)
Chun-Pong Yu	(bol.pacific.net.sg)
TAGA nayuta	(nayuta@is.s.u-tokyo.ac.jp)
Mike Thomas	(miketh@brisbane.paradigmgeo.com)
Mark Tucker	(mtucker@fiji.sidefx.com)

/*_

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*/

/*

* config.h -- configure various defines for tcsh

*

* All source files should #include this FIRST.

*

* Edit this to match your system type.

*/

#ifndef _h_config

#define _h_config

/****** System dependant compilation flags *****/

/*

* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).

*/

#undef POSIX

/*

* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)

* job control facilities.

*/

#undef POSIXJOBS

/*

* VFORK This machine has a vfork().

* It used to be that for job control to work, this define

* was mandatory. This is not the case any more.

* If you think you still need it, but you don't have vfork,

* define this anyway and then do #define vfork fork.

* I do this anyway on a Sun because of yellow pages brain damage,

* [should not be needed under 4.1]

* and on the iris4d cause SGI's fork is sufficiently "virtual"

* that vfork isn't necessary. (Besides, SGI's vfork is weird).

* Note that some machines eg. rs6000 have a vfork, but not

* with the berkeley semantics, so we cannot use it there either.

*/

#define VFORK

/*

* BSDJOBS You have BSD-style job control (both process groups and

* a tty that deals correctly

*/

```

#define BSDJOBS

/*
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgtyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgtyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/***** local defines *****/

#undef NLS_CATALOGS
#endif /* _h_config */

```

1.701 cxf-rt-javascript 2.7.4

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1.702 unzip 6.0-2.el6_6

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FIRST NOTE:

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

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

```
* MacBinaryIII.h
*
```

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*
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* MacBinary III spec.
* -----
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Regarding the first stipulation, Mr. Smith was tracked down in southern
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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 contribu-
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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.

1.703 tiles-servlet 3.0.8

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1.704 commons-codec 1.7

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1.705 commons-lang3 3.8.1

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1.706 castor-xml 1.3.1

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1.707 atk 1.30.0-1.el6

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1.708 commons-beanutils 1.6

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1.709 jersey-json 1.12

1.710 libx11 1.6.3-2.el6

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1.712 ezmorph 1.0.6

1.713 eclipse-compiler 3.21.0.v20200304-1404

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JUnit

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1.714 dmidecode 3.10.13-3.el6_4

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1.719 axis2-xmlbeans 1.4

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1.720 kexec-tools 2.0.0-280.el6

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```
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