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1.5 commonj-sdo 2.1.1

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Revision level 1.2, last updated on 2009/01/13

Changed the URL of the Artifacts.

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1.6 slf4j 1.7.2

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1.7 hamcrest-all 1.3

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1.8 httpcomponents-client 4.2.5

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For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

```
/**  
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*/
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

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

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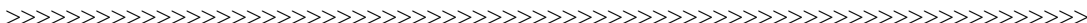
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1.13 jsch 0.1.54

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1.14 woodstox-core-asl 4.4.1

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1.15 json-java 20140107

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- * /opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/org/json/HTTPTokener.html
- * /opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/org/json/package-tree.html
- * /opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/org/json/class-use/HTTPTokener.html
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- * /opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/org/json/class-use/HTTP.html
- *

/opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/org/json/Kim.html
* /opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/constant-values.html
* /opt/cola/permits/163783015_1695314665.9343166/0/json-20140107-javadoc-jar/org/json/zip/Compressor.html
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1.16 commons-compress 1.4.1

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1.17 slf4j 1.7.21

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```
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```

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

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

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
```

```
<title>SLF4J License</title>
```

```
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
```

```
</head>
```

```
<body>
```

```
<script type="text/javascript">prefix="";</script>
```

```
<script src="templates/header.js" type="text/javascript"></script>
```

```
<div id="left">
```

```
<script src="templates/left.js" type="text/javascript"></script>
```

```
</div>
```

```
<div id="right">
```

```
<script src="templates/right.js" type="text/javascript"></script>
```

```
</div>
```

```
<div id="content">
```

```
<h1>Licensing terms for SLF4J</h1>
```

```
<p>SLF4J source code and binaries are distributed under the MIT license.
```

```
</p>
```

```
<div class="source">
```

```
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<script src="templates/footer.js" type="text/javascript"></script>

</div>

</body>

</html>

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1.18 asm 5.0.4

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  <head>
    <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
    <title>SLF4J License</title>
    <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
  </head>
  <body>
    <script type="text/javascript">prefix=";</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="right">
      <script src="templates/right.js" type="text/javascript"></script>
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</div>

<div id="content">

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1.23 bouncy-castle 1.60

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1.24 commons-cli 1.2

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1.25 servlet-api 4.0.1

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1.40 logback-core 1.2.3

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1.41 resourcelocator 1.0.1

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- * /opt/cola/permits/1000000713_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinderImpl.java
- * /opt/cola/permits/1000000713_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoaderImpl.java
- * /opt/cola/permits/1000000713_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/Activator.java
- * /opt/cola/permits/1000000713_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoader.java
- * /opt/cola/permits/1000000713_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinder.java

1.42 jedis 2.9.0

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1.43 stax-api 1.0-2

1.44 zkclient 0.10

1.45 jcommander 1.30

1.46 audience-annotations 0.5.0

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1.47 ezmorph 1.0.6

1.48 caffeine 2.7.0

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Tests included here are based on build output generated by the six-speed benchmark suite.

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Written by: Philip Hazel
Email local part: ph10
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes

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1.54 byte-buddy-dep 1.9.10

1.55 jcodings 1.0.18

1.56 joni 2.1.11

1.57 jdom 1.0

1.57.1 Available under license :

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```
/*--
```

```
$Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp $
```

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\$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp \$

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/*--

\$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp \$

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\$Id: OrFilter.java,v 1.4 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 jhunter Exp \$

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\$Id: XMLOutputter.java,v 1.112 2004/09/01 06:08:18 jhunter Exp \$

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

/*--

\$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/Filter.java
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\$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Attribute.java

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/*--

\$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/XSLTransformer.java

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/*--

\$Id: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/NamespaceStack.java

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\$Id: JDOMFactory.java,v 1.8 2004/09/01 05:25:38 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/JDOMFactory.java

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/*--

\$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/AttributeList.java

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\$Id: IllegalNameException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp \$

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\$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp \$

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Found in path(s):

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\$Id: IllegalDataException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp \$

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\$Id: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp \$

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\$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp \$

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\$Id: XML4JDOMAdapter.java,v 1.17 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/OracleV1DOMAdapter.java

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

/*--

\$Id: DataConversionException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/DataConversionException.java

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\$Id: SAXBuilder.java,v 1.89 2004/09/03 18:24:28 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/SAXBuilder.java

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\$Id: Format.java,v 1.10 2004/09/07 06:37:20 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/Format.java
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\$Id: XPath.java,v 1.15 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/xpath/XPath.java
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\$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/JDOMSource.java
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\$Id: DOMAdapter.java,v 1.21 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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\$Id: JDOMResult.java,v 1.23 2004/08/31 06:10:38 jhunter Exp \$

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\$Id: XercesDOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: BuilderErrorHandler.java,v 1.12 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: Parent.java,v 1.12 2004/08/31 21:47:51 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Parent.java

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/*--

\$Id: Content.java,v 1.5 2004/09/07 06:37:20 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Content.java

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\$Id: AbstractDOMAdapter.java,v 1.20 2004/02/06 09:28:31 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/AbstractDOMAdapter.java

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\$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/IllegalAddException.java
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\$Id: Namespace.java,v 1.41 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Namespace.java

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\$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/AbstractFilter.java
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\$Id: NegateFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: XSLTransformException.java,v 1.3 2004/02/06 09:28:32 jhunter Exp \$

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\$Id: EscapeStrategy.java,v 1.3 2004/02/06 09:28:32 jhunter Exp \$

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\$Id: Verifier.java,v 1.51 2004/08/31 21:58:55 jhunter Exp \$

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\$Id: JAXPDOMAdapter.java,v 1.12 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: AndFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: DescendantIterator.java,v 1.5 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/DescendantIterator.java
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/*--

\$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/DOMBuilder.java
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\$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/JDOMException.java

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\$Id: Document.java,v 1.84 2004/08/31 21:47:51 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Document.java

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/*--

\$Id: JDOMLocator.java,v 1.3 2004/02/06 09:28:32 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/JDOMLocator.java
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/*--

\$Id: ElementFilter.java,v 1.18 2004/09/07 06:37:20 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/ElementFilter.java

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\$Id: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/SAXOutputter.java

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\$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/SAXHandler.java

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\$Id: CDATA.java,v 1.30 2004/02/27 11:32:57 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/CDATA.java

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\$Id: OracleV2DOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp \$

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\$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp \$

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*/

Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/JDOMParseException.java

1.58 javolution 5.5.1

1.59 bonecp 0.8.0

1.59.1 Available under license :

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* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/UsernamePassword.java

* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/BoneCPDataSource.java

* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/hooks/package-info.java

*

/opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/hooks/ConnectionHook.java

* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/ConnectionHandle.java

* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/CloseThreadMonitor.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/StatementHandle.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/proxy/package-info.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/BoneCP.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/PoolUtil.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/StatisticsMBean.java
 *
 /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/ReplayLog.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/ConnectionMaxAgeThread.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/CallableStatementHandle.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/package-info.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/proxy/CallableStatementProxy.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/MemorizeTransactionProxy.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/Statistics.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/hooks/AbstractConnectionHook.java
 *
 /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/DefaultConnectionStrategy.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/PreparedStatementHandle.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/IStatementCache.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/proxy/TransactionRecoveryResult.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/ConnectionStrategy.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/ConnectionTesterThread.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/CachedConnectionStrategy.java
 * /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-jar/com/jolbox/bonecp/StatementCache.java
 *

```

/opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/hooks/AcquireFailConfig.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/proxy/ConnectionProxy.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/proxy/PreparedStatementProxy.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/PoolWatchThread.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/BoneCPConfig.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/hooks/ConnectionState.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/proxy/StatementProxy.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/BoneCPConfigMBean.java
*
/opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/CustomThreadFactory.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/AbstractConnectionStrategy.java
* /opt/cola/permits/1000123164_1618227172.29/0/bonecp-0-8-0-release-sources-
jar/com/jolbox/bonecp/ConnectionPartition.java

```

1.60 paranamer 2.3

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1.62 jakarta-websocket-api 1.1.1

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1.65 re2j 1.1

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1.71 javax-inject 1

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 */
```

Found in path(s):

```
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Singleton.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Inject.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Scope.java
*
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Qualifier.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Named.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Provider.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/package-info.java
```

1.72 commons-beanutils 1.9.3

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jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/UnsafeAllocator.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonScope.java
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*
/opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonReader.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/Since.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java

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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/TypeAdapter.java
*
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jar/com/google/gson/internal/LinkedTreeMap.java
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jar/com/google/gson/internal/LinkedHashMap.java
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jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/Streams.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonParser.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/FieldAttributes.java
*
/opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/LongSerializationPolicy.java
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jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/annotations/JsonAdapter.java
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jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/JavaVersion.java
*
/opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/PreJava9DateFormatProvider.java

1.77 commons-codec 1.10

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1.78 jersey-guava 2.25.1

1.79 javax-ws-rs-api 2.1

1.80 junit 4.12

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1.81 hk2-api 2.5.0

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1.82 javax-inject 2.5.0

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1.83 jline 0.9.94

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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  
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-  
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
```

1.84 hk2-utils 2.5.0

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- * /opt/cola/permits/1000738750_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger_types/TypeVisitor.java
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1.87 jaxb-core 2.2.3-1

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## 1.89 jaxb-api 2.2.2

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## 1.90 hk2-locator 2.5.0

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Found in path(s):

```
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/MessageFormatter.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/NamedLoggerBase.java
*
/opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/SubstituteLogger.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLogger.java
```

```

* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/MarkerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/spi/LoggerFactoryBinder.java
*
/opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/Marker.java
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* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-
jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/Logger.java
*
/opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/1000740126_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/ILoggerFactory.java

```

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```
* /opt/cola/permits/1000740250_1646171530.24/0/jul-to-slf4j-1-7-25-sources-
jar/org/slf4j/bridge/SLF4JBridgeHandler.java
```

## 1.97 jetty-util 6.1.26

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jar/org/apache/commons/logging/LogFactory.java

\* /opt/cola/permits/1000740347\_1646171536.17/0/jcl-over-slf4j-1-7-25-sources-  
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## 1.103 javax-ws-rs-api 2.0.1

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Found in path(s):

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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/Produces.java
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# 1.107 asm 5.0.4

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*/
/**
 * Constructs a new {@link ClassNode}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

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/\*\*

\* 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 `null`.  
\* @param exceptions  
\* the internal names of the method's exception classes (see  
\* { @link Type#getInternalName() getInternalName}). May be  
\* `null`.  
\* @throws IllegalStateException  
\* If a subclass calls this constructor.  
\*/*

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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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 jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
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 /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java  
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 jar/org/objectweb/asm/commons/SimpleRemapper.java  
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 jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LabelNode.java  
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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/Method.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Frame.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodNode.java  
\*  
/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/ParameterNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Type.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/TypeAnnotationNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/analysis/Subroutine.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/NameMapping.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Context.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/util/CheckMethodAdapter.java  
\*  
/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/analysis/SourceValue.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/ConstantPool.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handler.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/MethodOptimizer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/JarOptimizer.java



\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/signature/SignatureVisitor.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Label.java  
 \*  
 /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ByteVector.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/signature/SignatureReader.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/InnerClassNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handle.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/analysis/Analyzer.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/util/TraceClassVisitor.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
 \*  
 /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/MethodInsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationWriter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/analysis/Interpreter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/LocalVariableNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/analysis/Frame.java  
 \*  
 /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/commons/Remapper.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/AbstractInsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/optimizer/Shrinker.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/commons/InstructionAdapter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
 jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java  
\*  
/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Edge.java  
\*  
/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Opcodes.java  
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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/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java

\*

/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXClassAdapter.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXCodeAdapter.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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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/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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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/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties

\*

/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-writer.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-

frames.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

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/\*\*

\* Creates a new { @link GeneratorAdapter}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the

\* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

\* version.

\*

\* @param mv

\* the

method visitor to which this adapter delegates calls.

\* @param access

\* the method's access flags (see { @link Opcodes}).

\* @param name

\* the method's name.



```
* @param desc
* the method's descriptor (see {@link Type Type}).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
```

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## 1.109 jersey-media-jaxb 2.25.1

## 1.110 commons-beanutils-core 1.8.0

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# 1.115 apache-log4j 2.8.2

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## **1.117 jetty-annotations 7.6.0.v20120127**

## **1.118 jersey-client 1.9**

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## **1.120 antlr 3.4**

# 1.121 htrace-core 3.1.0

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## 1.122 jersey-json 1.9

## 1.123 geronimo-annotation-spec 1.1.1

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## 1.126 curator-framework 2.7.1

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## **1.130 jetty-sslengine 6.1.26**

## **1.131 jetty-jaspi 7.6.0.v20120127**

## **1.132 jetty-jmx 7.6.0.v20120127**

## **1.133 jetty-servlets 7.6.0.v20120127**

## **1.134 findbugs-annotations 1.3.9-1**

## **1.135 jetty-ajp 7.6.0.v20120127**

## **1.136 jetty-jndi 7.6.0.v20120127**

## **1.137 jersey-guice 1.9**

## **1.138 jpam 1.1**

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\* /opt/cola/permits/1000760198\_1609784744.14/0/jpam-linux-i386-1-1-tgz/JPam-1.1/jpam-1-1-src-zip/JPam-1.1/java/net/sf/jpam/PamReturnValue.java  
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/opt/cola/permits/1000760198\_1609784744.14/0/jpam-linux-i386-1-1-tgz/JPam-1.1/jpam-1-1-src-zip/JPam-1.1/java/net/sf/jpam/jaas/JpamLoginModule.java

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## 1.139 commons-net 3.1

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\* /opt/cola/permits/1000760507\_1654022905.8000407/0/jersey-container-servlet-core-2-27-sources-  
jar/org/glassfish/jersey/servlet/spi/FilterUrlMappingsProvider.java  
\* /opt/cola/permits/1000760507\_1654022905.8000407/0/jersey-container-servlet-core-2-27-sources-  
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jar/org/glassfish/jersey/servlet/internal/spi/RequestScopedInitializerProvider.java  
\* /opt/cola/permits/1000760507\_1654022905.8000407/0/jersey-container-servlet-core-2-27-sources-  
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 jar/org/glassfish/jersey/servlet/internal/package-info.java  
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 jar/org/glassfish/jersey/servlet/spi/AsyncContextDelegateProvider.java  
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 jar/org/glassfish/jersey/servlet/ServletProperties.java  
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\* /opt/cola/permits/1000760507\_1654022905.8000407/0/jersey-container-servlet-core-2-27-sources-  
jar/org/glassfish/jersey/servlet/internal/ThreadLocalInvoker.java

\* /opt/cola/permits/1000760507\_1654022905.8000407/0/jersey-container-servlet-core-2-27-sources-  
jar/org/glassfish/jersey/servlet/internal/ThreadLocalNamedInvoker.java

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## 1.142 jersey-server 2.27

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\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/KillRing.java

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\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/ConsoleReader.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/Operation.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/Urls.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/history/PersistentHistory.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/ConsoleKeys.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/package-info.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/completer/Completer.java  
\*  
/opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/completer/NullCompleter.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/NonBlockingInputStream.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/Terminal.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/TerminalFactory.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/KeyMap.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/TerminalSupport.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/UnixTerminal.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/Log.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/ShutdownHooks.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/InputStreamReader.java  
\*  
/opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/TerminalLineSettings.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/AggregateCompleter.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/EnumCompleter.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/Preconditions.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/CompletionHandler.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/ArgumentCompleter.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/completer/package-info.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/package-info.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/TestAccessible.java  
\*  
/opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/history/MemoryHistory.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/CursorBuffer.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/history/FileHistory.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/FileNameCompleter.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/Nullable.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/WindowsTerminal.java

\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/AnsiWindowsTerminal.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/internal/Configuration.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/UserInterruptedException.java  
\*  
/opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/internal/ConsoleRunner.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/internal/ConsoleReaderInputStream.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/NoInterruptUnixTerminal.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/CandidateListCompletionHandler.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/console/history/package-info.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/package-info.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-jar/jline/UnsupportedTerminal.java  
\* /opt/cola/permits/1000760618\_1651084406.9/0/jline-2-12-sources-  
jar/jline/console/completer/StringsCompleter.java  
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## 1.149 datanucleus-rdbms 3.2.9

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## 1.150 jetty-xml 7.6.0.v20120127

## 1.151 jersey-media-jaxb 2.27

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jar/org/glassfish/jersey/jaxb/internal/AbstractXmlFactory.java

\* /opt/cola/permits/1000760112\_1654022909.490289/0/jersey-media-jaxb-2-27-sources-  
jar/org/glassfish/jersey/jaxb/internal/SecureSaxParserFactory.java

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- \* /opt/cola/permits/1000760112\_1654022909.490289/0/jersey-media-jaxb-2-27-sources-jar/org/glassfish/jersey/jaxb/internal/AbstractJaxbElementProvider.java
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- \*
  - /opt/cola/permits/1000760112\_1654022909.490289/0/jersey-media-jaxb-2-27-sources-jar/org/glassfish/jersey/jaxb/internal/XmlCollectionJaxbProvider.java
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jar/org/glassfish/jersey/jaxb/internal/XmlRootObjectJaxbProvider.java
* /opt/cola/permits/1000760112_1654022909.490289/0/jersey-media-jaxb-2-27-sources-
jar/org/glassfish/jersey/jaxb/internal/XmlRootElementJaxbProvider.java
* /opt/cola/permits/1000760112_1654022909.490289/0/jersey-media-jaxb-2-27-sources-
jar/org/glassfish/jersey/jaxb/internal/DocumentProvider.java
*
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jar/org/glassfish/jersey/jaxb/internal/AbstractCollectionJaxbProvider.java
* /opt/cola/permits/1000760112_1654022909.490289/0/jersey-media-jaxb-2-27-sources-
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# 1.154 jetty-webapp 7.6.0.v20120127



# 1.155 geronimo-jaspic-spec 1.0

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## 1.157 commons-dbcp 1.4

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 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/AlternativeLongOptionSpec.java  
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 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/AbstractOptionSpec.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionalArgumentOptionSpec.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/UnconfiguredOptionException.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/BuiltinHelpFormatter.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/AbbreviationMap.java  
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 \*  
 /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/MultipleArgumentsForOptionException.java  
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 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionArgumentConversionException.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/ParserRules.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/MissingRequiredOptionsException.java  
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 \*  
 /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionParserState.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Row.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSpecBuilder.java  
 \* /opt/cola/permits/1000760427\_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/ArgumentList.java

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* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/KeyValuePair.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSet.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Columns.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-
jar/joptsimple/UnrecognizedOptionException.java
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Found in path(s):

\* /opt/cola/permits/1000764326\_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/web-app\_2\_2.dtd

# 1.167 core 3.1.1

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The specification of DOM Level 2's various parts is at:  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>  
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<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>  
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

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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/>  
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## 1.170 json-simple 1.1

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## 1.172 taglibs-standard-spec 1.2.5

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# 1.175 mina 2.0.4

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- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/AES192CBC.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/ChannelSubsystem.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/AES128CBC.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/RequestSubsystem.java

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\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/DHECN.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/SHA512.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/SignatureECDSA.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/SHA384.java  
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\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/DHEC256.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/SignatureECDSA.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/ECDH521.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/DHEC384.java  
\* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/DHEC521.java  
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 \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/SHA256.java  
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 \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-  
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 /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/MD5.java  
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* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/ARCFOUR.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/ARCFOUR256.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/AES192CTR.java
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/opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/ARCFOUR128.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/TripleDESCTR.java
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- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/OpenSSHConfig.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/ConfigRepository.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/PBKDF.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/PBKDF.java

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- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jcraft/HMAC.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jgss/GSSContextKrb5.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jcraft/HMACSHA1.java
- \* /opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jcraft/HMACMD596.java

\*

```
/opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/Logger.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-
jar/com/jcraft/jsch/jcraft/HMACSHA196.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/ProxySOCKS4.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-
jar/com/jcraft/jsch/ChannelAgentForwarding.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-
jar/com/jcraft/jsch/RequestAgentForwarding.java
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```
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/HMACSHA256.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/IdentityRepository.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/Signature.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-
jar/com/jcraft/jsch/LocalIdentityRepository.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/HMAC.java
*
```

/opt/cola/permits/1000875472\_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/HMACSHA512.java  
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## 1.187 commons-collections 4.3

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

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

```
 Either create a single parameter accepting the Tuple2,
 or consider a pattern matching anonymous function: ` { case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)
 ^
```

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

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

```
 Either create a single parameter accepting the Tuple2,
 or consider a pattern matching anonymous function: ` { case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
 ^
```

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

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

```
 Either create a single parameter accepting the
 Tuple3,
 or consider a pattern matching anonymous function: ` { case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
 ^
```

three errors found

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Found in path(s):

```
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Utf8.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/MessageLite.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/Service.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/TextFormat.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/LiteralByteString.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/FieldSet.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/BlockingService.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/WireFormat.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/MessageOrBuilder.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/InvalidProtocolBufferException.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/ExtensionRegistry.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/ServiceException.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/BlockingRpcChannel.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/SingleFieldBuilder.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/BoundedByteString.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/Descriptors.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/DynamicMessage.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/GeneratedMessage.java
```

\*  
/opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcController.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedInputStream.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringArrayList.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ByteString.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RopeByteString.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UninitializedMessageException.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ProtocolMessageEnum.java  
\*  
/opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/SmallSortedMap.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcUtil.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Parser.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Internal.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractMessageLite.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractParser.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedOutputStream.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringList.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/GeneratedMessageLite.java  
\*  
/opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Message.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcChannel.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcCallback.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UnknownFieldSet.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyField.java

\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ExtensionRegistryLite.java  
\* /opt/cola/permits/1000966244\_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractMessage.java

## 1.197 java-api 2.5.0

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## 1.199 scala-reflect 2.11.12

## 1.200 mime-pull 1.9.3

## 1.201 javax-json 1.0.4



# 1.202 libuv 1.8.0

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*/
```

```
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#define UV_PLATFORM_FS_EVENT_FIELDS \
uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
int rcount; \
int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

```
Files: *
=====
```

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```
Files: getopt.c
=====
```

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SourceFileElementParserImpl.javaEnclosingMethod(),

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Exceptions

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separatorgetComments()Ljava/util/List;blocksLocalVariableTypeTable;Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;=(Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;insertCommentBlock(Ljava/lang/String;VcommentTextcb)Lorg/jvnet/licensetool/file/CommentBlock;adjustBlockAtIndex(I)VcontentIremove,(Lorg/jvnet/licensetool/file/CommentBlock;)VwriteTo+(Lorg/jvnet/licensetool/file/FileWrapper;)VblockfwcreateCommentBlock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;

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org/jvnet/licensetool/file/BlockTopCommentBlock^%org/jvnet/licensetool/file/PlainBlockPOline.separatorANmnbca^gNjjava/lang/StringBuilderSkipping file because is is not

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Wrapper\$OpenModeOpenModeWRITE1Lorg/jvnet/licensetool/file/FileWrapper\$OpenMode;open4(Lorg/jvnet/lic  
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\*,\*DE FH\_ ;`abcC?`\*  
M,,N-\* \*Y\* D(>E\*d;?FH?ef1RSghCD\*+ WD  
EFH`aijCi+!6+"+#\$\*M,,N-+% !&'Y()\*+,-./:/X\_\_a\_D6

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a/lang/IllegalArgumentException;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/Object;x0Ljava/lang/Object  
; SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;  
SourceFileElementParserImpl.javaEnclosingMethodCDGHIJK"java/lang/IllegalArgumentExceptionjava/lang/Runti  
meExceptionjava/lang/StringBuilderLM is not in enum NOPQPRjava/lang/String  
!3org/jvnet/licensetool/argparser/ElementParserImpl\$4java/lang/Object+org/jvnet/licensetool/generic/UnaryFunctio  
n1org/jvnet/licensetool/argparser/ElementParserImpl  
getSimpleDataS  
ResultDataQ(Ljava/lang/Class;)Lorg/jvnet/licensetool/argparser/ElementParserImpl\$ResultData;()Vjava/lang/Enum  
valueOf5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;append-  
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SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;SourceFileElementParserImpl.javaEnclosingMethod+,-

./01java/lang/String3org/jvnet/licensetool/argparser/ElementParserImpl\$9java/lang/Object+org/jvnet/licensetool/generic/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg/jvnet/licensetool/generic/UnaryFunction;()Vjava/lang/IntegervalueOf(Ljava/lang/String;)Ljava/lang/Integer;

4

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<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Appendix&nbsp;A.&nbsp;GNU Lesser General Public License</title>



```

<meta name="generator" content="DocBook XSL Stylesheets V1.69.1a">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<div class="appendix" lang="en">
<div class="titlepage">
<div>
<div><h1 class="title">GNU Lesser General Public License</h1></div>
<div><p class="releaseinfo">This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.</p></div>
<div><p class="copyright">Copyright © 1991, 1999 Free Software Foundation, Inc.</p></div>
<div>
<div class="legalnotice">

<p>

</p>

<div class="address"><p>Free Software Foundation, Inc.

 51 Franklin Street, Fifth Floor,

 Boston,

 MA

 02110-1301

 USA

</p></div>
<p>
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<p>Everyone is permitted to copy and distribute verbatim
copies of this license document, but changing it is not
allowed.</p></div>
</div>
<div><p class="pubdate">Version 2.1, February 1999</p></div>
</div>
</div>
<div class="section" lang="en">
<div class="titlepage">
<div>
<div><h2 class="title" style="clear: both">Preamble</h2></div>
</div>
</div>
<p>The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.</p>

<p>This license, the Lesser General Public License, applies to some

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specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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.

<p>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.</p>

<p>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.</p>

<p>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.</p>

<p>We call this license the <span class="emphasis"><em>Lesser</em></span> 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.</p>

<p>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.</p>

<p>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.</p>

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.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

### Section 0

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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".)

<p>&#8220;<span class="quote">Source code</span>&#8221; 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>

<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></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-1"></a>Section 1</h3></div>

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<p>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>

<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></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-2"></a>Section 2</h3></div>

</div>

</div>

<p>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 <a href="#lgpl-2-1" title="Section 1">Section 1</a> above, provided that you also meet all of these conditions:

</p>

<div class="orderedlist">

<ol type="a">

<li><p>The modified work must itself be a software library.</p></li>

<li><p>You must cause the files modified to carry prominent notices

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

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

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.

[Section 3](#)

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</div>
</div>
<p>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>
```

```
<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>
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```
<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></div>
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<div class="section" lang="en">
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<div class="titlepage">
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<div><h3 class="title">Section 4</h3></div>
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```
<p>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
```

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provided
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that you accompany
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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.</p>
```

```
<p>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.</p></div>
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<div class="titlepage">
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<div><h3 class="title">Section 5</h3></div>
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</div>
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```
<p>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 `&#8220;work that uses the Library&#8221;`. 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 `&#8220;work that uses the Library&#8221;` with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a `&#8220;work that uses the library&#8221;`. The executable is therefore covered by this License.

[Section 6](#lgpl-2-6 "Section 6") states terms for distribution of such executables.

When a `&#8220;work that uses the Library&#8221;` 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](#lgpl-2-6 "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](#lgpl-2-6 "Section 6").

Any executables containing that work also fall under [Section 6](#lgpl-2-6 "Section 6"), whether or not they are linked directly with the Library itself.

[Section 6](#lgpl-2-6 "Section 6")

As an exception to the Sections above, you may also combine or

link a `&#8220;work that uses the Library&#8221;` 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:

</p>

<div class="orderedlist">

<ol type="a">

<li><p><a name="lgpl-2-6-a"></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 <a href="#lgpl-2-1" title="Section 1">Sections 1</a> and <a href="#lgpl-2-2" title="Section 2">2</a> above); and, if the work is an executable linked with the Library, with the complete machine-readable &#8220;<span class="quote">work that uses the Library</span>&#8221;, 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.)</p></li>

<li><p>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.</p></li>

<li><p>Accompany the work with a written offer, valid for at least three years, to give the same user

the materials

specified in <a href="#lgpl-2-6-a">Subsection 6a</a>, above, for a charge no more than the cost of performing this distribution.</p></li>

<li><p>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.</p></li>

<li><p>Verify that the user has already received a copy of these materials or that you have already sent this user a copy.</p></li>

</ol>

</div>

<p>

</p>

<p>For an executable, the required form of the &#8220;<span class="quote">work that uses the Library</span>&#8221; 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.</p>

<p>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.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-7"></a>Section 7</h3></div>

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</div>

<p>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:

</p>

<div class="orderedlist">

<ol type="a">

<li><p>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.</p></li>

<li><p>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.</p></li>

</ol>

</div>

<p>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-8"></a>Section 8</h3></div>

</div>

</div>

<p>You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any

attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-9"></a>Section 9</h3></div>

</div>

</div>

<p>You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any

work based on the

Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-10"></a>Section 10</h3></div>

</div>

</div>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-11"></a>Section 11</h3></div>

</div>

</div>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-12"></a>Section 12</h3></div>

</div>

</div>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-13"></a>Section 13</h3></div>

</div>

</div>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-14"></a>Section 14</h3></div>

</div>

</div>

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parts of the Library into other free

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-15"></a>NO WARRANTY Section 15</h3></div>

</div>

</div>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title"><a name="lgpl-2-16"></a>Section 16</h3></div>

</div>

</div>

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```
<p>END OF TERMS AND CONDITIONS</p></div>
</div>
<div class="section" lang="en">
 <div class="titlepage">
 <div>
 <div><h2 class="title" style="clear: both">How to Apply These Terms to Your New
 Libraries</h2></div>
 </div>
 </div>
 </div>
 <p>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).</p>

 <p>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.</p>

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

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 modify it under the terms of the GNU Lesser General Public
 License as published by the Free Software Foundation; either
 version 2.1 of the License, or (at your option) any later version.</p>

 <p>This library is distributed in the hope that it will be useful,
 but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
 Lesser General Public License for more details.</p>

 <p>You should have received a copy of the GNU Lesser General Public
 License along with this library; if not, write to the Free Software
 Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA</p>
```

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<p>&lt;signature of Ty Coon&gt;, 1 April 1990  
Ty Coon, President of Vice</p>

```
<p>That's all there is to it!</p></div>
</div>
</body>
</html>
12 "
#
$%&
'()*this$03Lorg/jvnet/licensesetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensesetool/argparser/ElementPar
serImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses5Lorg/jvnet/licensesetool/argparser/ElementPar
serImpl$6;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/O
bject;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensesetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String3org/jvnet/licensesetool/argparser/ElementParserImpl$6java/lang/Object+org/jvnet/licensesetool/gen
eric/UnaryFunction1org/jvnet/licensesetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg
/jvnet/licensesetool/generic/UnaryFunction;()Vjava/lang/BytevalueOf$(Ljava/lang/String;)Ljava/lang/Byte;
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9+A
= *+ !
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>org.jvnet.licenseetool</groupId>
 <artifactId>license-tool</artifactId>
 <packaging>jar</packaging>
 <version>1.0-SNAPSHOT</version>
 <name>license-tool</name>
 <url>http://maven.apache.org</url>
 <build>
 <plugins>
 <plugin>
 <artifactId>maven-compiler-plugin</artifactId>
 <version>RELEASE</version>
```

```

 <configuration>
 <source>1.5</source>
 <target>1.5</target>
 </configuration>
 </plugin>
 <!-- modifies the license header -->
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-surefire-plugin</artifactId>

<configuration>
 <forkMode>never</forkMode>
</configuration>
</plugin>
<!-- validate the correctness of the liocense header -->
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-antrun-plugin</artifactId>
 <executions>
 <execution>
 <phase>test</phase>
 <configuration>
 <tasks>
 <taskdef name="licensetool" classname="org.jvnet.licensetool.LicenseToolTask">
 <classpath>
 <path refid="maven.test.classpath"/>
 </classpath>
 </taskdef>
 <licensetool srcDir="."
 validate="true"

skipdirs=".svn,.cvs"
 copyright="target/test-classes/copyright/copyright.txt"
 startyear="1997"
 dryrun="false"
 includes="target/test-classes/testsrc/">

 </licensetool>
 </tasks>
 </configuration>
 </execution>
 </executions>
</plugin>
</plugins>
</build>

```



```

<dependencies>
 <dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <version>3.8.1</version>
 <scope>test</scope>
 </dependency>
 <dependency>
 <groupId>ant</groupId>
 <artifactId>ant</artifactId>
 <version>1.6.5</version>
 </dependency>
</dependencies>
</project>
1.(*value()IRuntimeVisibleAnnotations.Lorg/jvnet/licensesetool/argparser/DefaultValue;27&Lorg/jvnet/licensesetool/ar
gparser/Help;An integer valuelake()Ljava/lang/String;MichiganThe name of a
lakecolor+PrimaryColorInnerClasses:()Lorg/jvnet/licensesetool/argparser/ArgParser$PrimaryColor;REDPick a
colorurl()Ljava/net/URL;http://www.sun.comyour favorite URL arrayData,
StringPair9()[Lorg/jvnet/licensesetool/argparser/ArgParser$StringPair;(funny:thing,another:thing,something:else#A
list of pairs of the form xxx:yyy+Lorg/jvnet/licensesetool/argparser/Separator;,listData()Ljava/util/List;
SignatureJ()Ljava/util/List<Lorg/jvnet/licensesetool/argparser/ArgParser$StringPair;>;
SourceFileArgParser.java-7org/jvnet/licensesetool/argparser/ArgParser$TestInterface
TestInterfacejava/lang/Object6org/jvnet/licensesetool/argparser/ArgParser$PrimaryColor4org/jvnet/licensesetool/argpar
ser/ArgParser$StringPair)org/jvnet/licensesetool/argparser/ArgParserss
ss
ssssss !"#$$%&'@ ')
1
factory-Lorg/jvnet/licensesetool/generic/UnaryFunction;
SignaturexLorg/jvnet/licensesetool/generic/UnaryFunction<Ljava/lang/reflect/Method;Lorg/jvnet/licensesetool/argparse
r/ElementParser;>;describe()[Ljava/lang/String;<clinit>()VCodeLineNumberTableeLjava/lang/Object;Lorg/jvnet/lic
ensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParser.java/org/jvnet/licensesetool/argparser/ElementParser$1InnerClasses-
org/jvnet/licensesetool/argparser/ElementParserjava/lang/Object+org/jvnet/licensesetool/generic/UnaryFunction<init>

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${|
*}~val$copyrightBlock'Lorg/jvnet/licensetool/file/PlainBlock;this$0%Lorg/jvnet/licensetool/ActionFactory;<init>O
(Lorg/jvnet/licensetool/ActionFactory;Lorg/jvnet/licensetool/file/PlainBlock;)VCodeLineNumberTableLocalVariabl
eTablethisInnerClasses'Lorg/jvnet/licensetool/ActionFactory$4;toString()Ljava/lang/String;evaluate*(Lorg/jvnet/lic
ensetool/file/ParsedFile;)Zblock)Lorg/jvnet/licensetool/file/CommentBlock;$Ljava/util/Iterator;exclJava/io/IOExce
ption;pfile'Lorg/jvnet/licensetool/file/ParsedFile;hadAnOldSunCopyrightZcountSunCopyrightI(Ljava/lang/Object;)
Zx0Ljava/lang/Object;
SourceFileActionFactory.javaEnclosingMethod/0-
.ljava/lang/StringBuilder#CopyrightBlockAction[copyrightText=];*Updating copyright/license header on file
;#Insert: No Sun Copyright header in
;'org/jvnet/licensetool/file/CommentBlockjava/lang/StringSunCopyrightCopyrightBlock*Remove: More than one
Sun Copyright Block TopCommentBlock;2Replace:
First block has incorrect copyright text 8Move: Sun Copyright Block is not the first comment
blockjava/io/IOException Exception while processing file :
%org/jvnet/licensetool/file/ParsedFile<=%org/jvnet/licensetool/ActionFactory$4java/lang/Object$org/jvnet/licenset
ool/Scanner$ActionAction#org/jvnet/licensetool/ActionFactorygetModifyCopyrightActionO(Lorg/jvnet/licensetool/
file/PlainBlock;)Lorg/jvnet/licensetool/Scanner$Action;()Vappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;
access$100O(Lorg/jvnet/licensetool/ActionFactory;Lorg/jvnet/licensetool/file/ParsedFile;)ZgetPath
access$000:(Lorg/jvnet/licensetool/ActionFactory;Ljava/lang/String;)V%org/jvnet/licensetool/file/PlainBlockconten
tsinsertCommentBlock(Ljava/lang/String;)VgetComments()Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;j
ava/util/IteratorhasNext()Znext(Ljava/lang/Object;hasTags([Ljava/lang/String;)Zremove,(Lorg/jvnet/licensetool/fil
e/CommentBlock;)VhasTag(Ljava/lang/String;)Zcomment#org/jvnet/licensetool/util/ToolUtilareCommentsEqual'(L
java/lang/String;Ljava/lang/String;)ZwriteprintStackTraceorg/jvnet/licensetool/Scanner
+,-./01239+*,*4569;;3FY*
4569<=3Rp*+=*Y+
+*Y+
+*>+::YSYS)*Y+
+F* b*Y!+
++*1*Y"+
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&
'7;>$4z &*GRTu#)47;>@gln5Hu>?_@A@.BCp69pDE gFGTHIA<J3= *+()45 69 KLMNOPQ8*,
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/
0123MultiLineCommentFileParserInnerClassesBlockCommentParsedFilestartLjava/lang/String;endprefix<init>9(Lj
ava/lang/String;Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisGLorg/jvnet/li
censetool/MultiLineCommentFile$MultiLineCommentFileParser;
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;file(Lorg/jvnet/licensetoo
l/file/FileWrapper;

```

Exceptions4parseBlocks:(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;  
Signature^(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;  
access\$000(Lorg/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;x0x1  
SourceFileMultiLineCommentFile.java  
5\org/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParser\$BlockCommentParsedFile678Eorg/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParser%org/jvnet/licensetool/file/FileParserjava/io/IOException()Vr(Lorg/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)V\*org/jvnet/licensetool/MultiLineCommentFilep(Lorg/jvnet/licensetool/file/FileWrapper;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Ljava/util/List;!  
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ArgumentsInnerClassesvalidateZverbose COPYRIGHTLjava/lang/String;
ConstantValue
START_YEARLOGGERLjava/util/logging/Logger;<init>()VCodeLineNumberTableLocalVariableTablethis#Lorg/
jvnet/licensetool/LicenseTool;trace(Ljava/lang/String;)VmsggetSunCopyrightStart&(Ljava/lang/String;)Ljava/lang/
String;strindexIposchCstartmakeCopyrightBlockb(Ljava/lang/String;Lorg/jvnet/licensetool/file/PlainBlock;)Lorg/jv
net/licensetool/file/PlainBlock; startYear
copyrightTextLorg/jvnet/licensetool/file/PlainBlock;mapLjava/util/Map;
withStartLocalVariableTypeTable5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;process0(Lorg/jvnet/licen
setool/LicenseTool$Arguments;)Vi$Ljava/util/Iterator;actionAction&Lorg/jvnet/licensetool/Scanner$Action;copyri
ghtBlockscannerLorg/jvnet/licensetool/Scanner;excLjava/io/IOException;args-
Lorg/jvnet/licensetool/LicenseTool$Arguments;
formatterLjava/util/logging/Formatter;sh!Ljava/util/logging/StreamHandler;domainLoggermain([Ljava/lang/String;)
Vstrs[Ljava/lang/String;ap+Lorg/jvnet/licensetool/argparser/ArgParser;ZLorg/jvnet/licensetool/argparser/ArgParser
<Lorg/jvnet/licensetool/LicenseTool$Arguments;>;<clinit>
SourceFileLicenseTool.javaZ[XYb Copyrightjava/lang/StringBuilder
makeCopyrightBlock: startYear = ab$makeCopyrightBlock: copyrightText = Contents of copyrightText
block:java/util/HashMap StartYear/Contents of copyrightText block withStart
date:SSRQQR#org/jvnet/licensetool/LicenseTool$1java/util/logging/StreamHandlerZorg.jvnet.licensetool
```

Main: args:

```
%org/jvnet/licensetool/file/PlainBlockZmnorg/jvnet/licensetool/ScannerZjava/lang/String
b#org/jvnet/licensetool/ActionFactory!"#"org/jvnet/licensetool/RecognizerFactory$%&java/io/IOExceptionExcepti
on while processing:
(b)[org/jvnet/licensetool/argparser/ArgParser+org/jvnet/licensetool/LicenseTool$ArgumentsZ*+,wx!org/jvnet/licen
setool/LicenseTool-
.java/lang/Object$org/jvnet/licensetool/Scanner$Actionjava/util/logging/LoggerfineindexOf(Ljava/lang/String;)Ilen
gth()IcharAt(I)Cjava/lang/CharacterisWhitespace(C)ZisDigit substring(II)Ljava/lang/String;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;contents
java/util/Mapput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;instantiateTemplate8(Ljava/util/Map;)Lo
rg/jvnet/licensetool/file/PlainBlock;
startyear(Zjava/lang/SystemoutLjava/io/PrintStream;6(Ljava/io/OutputStream;Ljava/util/logging/Formatter;)V
getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;setUseParentHandlers(Z)Vjava/util/logging/LevelFINELja
va/util/logging/Level;setLevel(Ljava/util/logging/Level;)V
addHandler(Ljava/util/logging/Handler;)V
copyright*(Lorg/jvnet/licensetool/file/FileWrapper;+(Lorg/jvnet/licensetool/file/FileWrapper;)Vdryrunroots()Ljava
/util/List;(ZLjava/util/List;)Vskipdirsjava/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNextnext()Ljava/la
ng/Object;addDirectoryToSkipgetValidateCopyrightActionO(Lorg/jvnet/licensetool/file/PlainBlock;)Lorg/jvnet/licen
setool/Scanner$Action;getModifyCopyrightActiongetDefaultRecognizer-
(Lorg/jvnet/licensetool/file/FileRecognizer;scanT(Lorg/jvnet/licensetool/file/FileRecognizer;Lorg/jvnet/licensetool/
Scanner$Action;ZwarningprintStackTrace(Ljava/lang/Class;)Vparse'([Ljava/lang/String;)Ljava/lang/Object;java/la
ng/ClassgetName!LN
```

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\*Y++YM,\*W+,N--]\*

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\*L\*\* Y!M"Y#,\$N%&:'()-(\*-+Y,\*-Y\*./:+0:1Y\*2\*34:\*56:789: ;Y<=:;Y<>:?Y@ABW\$:YDEFkC]n!-4:@HOUkz^

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## OpenModeInnerClasses

```

FileStatefileLjava/io/File;fisLjava/io/FileInputStream;isrLjava/io/InputStreamReader;readerLjava/io/BufferedReader;fosLjava/io/FileOutputStream;oswLjava/io/OutputStreamWriter;writerLjava/io/BufferedWriter;state2Lorg/jvnet/licensesetool/file/FileWrapper$FileState;<init>(Ljava/io/File;)VCodeLineNumberTableLocalVariableTablethis(Lorg/jvnet/licensesetool/file/FileWrapper;(Ljava/lang/String;)VstrLjava/lang/String;#(Ljava/io/File;Ljava/lang/String;)VrootcanWrite()ZtoString(Ljava/lang/String;
isYoungerThan+(Lorg/jvnet/licensesetool/file/FileWrapper;)Zfwdelete()VgetNamegetAbsolutePathreadLine
ExceptionsreadAsStringifileContentsLjava/lang/StringBuilder;
writeLinelinewritecloseexclLjava/io/IOException;open4(Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;)Vmode1Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;getFileState4(Lorg/jvnet/licensesetool/file/FileWrapper$FileState;copyTo-(Lorg/jvnet/licensesetool/file/FileWrapper;[B)VdataReadtargetbuffer[B getSuffixdotIndex
SourceFileFileWrapper.javaZnJKLMNOPQRSTUVWXYZjava/io/FileZaZ[ZdfghigmgooiYjava/io/IOExceptionjava/lang/StringBuilder
is not open for readingqiY is not open for
writingzn{ njava/io/FileInputStreamjava/io/InputStreamReaderZjava/io/BufferedReaderZjava/io/FileOutputStreamZjava/io/OutputStreamWriterZjava/io/BufferedWriterZ5 is already open for reading, cannot open for writing5 is
already open for writing, cannot open for
readingz&org/jvnet/licensesetool/file/FileWrapperjava/lang/Objectjava/io/Closeable/org/jvnet/licensesetool/file/FileWrapper$OpenMode0org/jvnet/licensesetool/file/FileWrapper$FileStateCLOSEDexistslastModified()JgetAbsolutePath
OPEN_FOR_READappend-(Ljava/lang/Object;)Ljava/lang/StringBuilder;-
(Ljava/lang/String;)Ljava/lang/StringBuilder;read()I(C)Ljava/lang/StringBuilder;OPEN_FOR_WRITEjava/lang/Stringlength(Ljava/lang/String;II)VnewlineREAD(Ljava/io/InputStream;)V(Ljava/io/Reader;)V(Ljava/io/File;)V(Ljava/io/OutputStream;)V(Ljava/io/Writer;)VWRITE([B)I([BII)VlastIndexOf(I)I
substring(I)Ljava/lang/String;!BCDJKLMNOPQRSTUVWXYZ[/**+*****
]*
KL NOPRS"TV.W^/_`JKZa\E
*Y+
]
Z[^
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bcZd\P*Y+,
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_`eKbcfg\2*]b^`hi\2*]f^`jk\`$**+]o
p"s^$_`$Γmn\7 *W]
wx^ _`oi\2*][^`pi\2*]^`qi\b0*
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(0=DG^ L_`9tu0vwrxa\=*
"!YY*#*+*$%*&]
(5<^=_`=ycrza\v6*
"!YY*#*+*$%]

```

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\*\*(\*)\*\*  
\*\*\*+\_\*,\*  
LHK]2  
,3:AHKL^L|}M\_`~\I\*  
y+-:\*.Y\*/0Y\*1\*2Y\*3\*  
\*4Y\*5\*6Y\*7\*8Y\*9\*"  
W\*  
(+-FYY\*+;!YY\*<]F  
>EHXgv}^\_`r/\*  
]^\_`jN:.Y\*/N4Y+=:-,>6,?-,>6--)",;--),=RRTR]N%\*3:=AEJRX\afi ^>%uj\_`j`jhLMeRSri\a!\*.@<\*`A]

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qrstuv\$dataLjava/util/Map;val\$defaultDatathis\$0+Lorg/jvnet/licensetool/argparser/ArgParser;<init>L(Lorg/jvnet/licensetool/argparser/ArgParser;Ljava/util/Map;Ljava/util/Map;)VCodeLineNumberTableLocalVariableTablethisInnerClasses-Lorg/jvnet/licensetool/argparser/ArgParser\$1;LocalVariableTypeTable-Lorg/jvnet/licensetool/argparser/ArgParser.1;getValue&(Ljava/lang/String;)Ljava/lang/Object;keywordLjava/lang/String;resultLjava/lang/Object;

getString&(Ljava/lang/Object;)Ljava/lang/String;elementctrIsbLjava/lang/StringBuilder;objclsLjava/lang/Class;invokeS(Ljava/lang/Object;Ljava/lang/reflect/Method;[Ljava/lang/Object;)Ljava/lang/Object;i\$Ljava/util/Iterator;proxy methodLjava/lang/reflect/Method;args[Ljava/lang/Object;name

SourceFileArgParser.javaEnclosingMethodvwx%&"#\$#yz{|}~java/lang/StringBuilder[,{e]toStringjava/lang/String=2389

+org/jvnet/licensetool/argparser/ArgParser\$1java/lang/Object#java/lang/reflect/InvocationHandler)org/jvnet/licensetool/argparser/ArgParser makeProxy2(Ljava/util/Map;Ljava/util/Map;)Ljava/lang/Object;()V

java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;getClass()Ljava/lang/Class;java/lang/ClassisArray()Zappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;java/lang/reflect/Array

getLength(Ljava/lang/Object;)I(Ljava/lang/Object;)I(Ljava/lang/Object;)O(Ljava/lang/String;java/lang/reflect/Method getNameequals(Ljava/lang/Object;);Z

access\$000<(Lorg/jvnet/licensetool/argparser/ArgParser;)Ljava/util/Map;keySet()Ljava/util/Set;

java/util/Setiterator()Ljava/util/Iterator;java/util/IteratorhasNextnext()Ljava/lang/Object;

!"#\$%&'()P\*+\*,\*~\*\*+,/0,123)x\*+M,\*+M,\*Imno+ ,/45670,189)\+M,NY N-

W6+'

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W+:-W-W-+\*6

stuvw'x,y3|;}EwKRW+>;

:7-;<C=>\,^?7W@A0\,1BC)\$z,:fY :\*::WW\*\*WW\*\* .BJRbjms+RB(45,ADEZ=>z,/zF7zGHzIJtK50z,ILMNOP.

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TestInterfaceInnerClassesA

StringPairBPrimaryColorinterfaceClassLjava/lang/Class;



```

SignatureLjava/lang/Class<TT>;>;helpTextLjava/util/Map;5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;
defaultValues5Ljava/util/Map<Ljava/lang/String;Ljava/lang/Object;>;
parserDataRLjava/util/Map<Ljava/lang/String;Lorg/jvnet/licensesetool/argparser/ElementParser;>;LOGGERLjava/uti
l/logging/Logger;<init>(Ljava/lang/Class;)VCodeLineNumberTableLocalVariableTablekeywordLjava/lang/String;e
p/Lorg/jvnet/licensesetool/argparser/ElementParser;dv.Lorg/jvnet/licensesetool/argparser/DefaultValue;help&Lorg/jvnet
/licensesetool/argparser/Help;mLjava/lang/reflect/Method;arr${Ljava/lang/reflect/Method;lenlithis+Lorg/jvnet/licen
setool/argparser/ArgParser;clsdefaultValueDataLocalVariableTypeTable0Lorg/jvnet/licensesetool/argparser/ArgParse
r<TT>;>;(Ljava/lang/Class<TT>;>);Vdisplay&(Ljava/lang/Object;Ljava/lang/String;elementLjava/lang/Object;ctrsbL
java/lang/StringBuilder;Ljava/util/Iterator;firstZobjgetHelpText(Ljava/lang/String;str[Ljava/lang/String;defaultVal
uekeysLjava/util/Set;keyListLjava/util/List;#Ljava/util/Set<Ljava/lang/String;>;$Ljava/util/List<Ljava/lang/String;>
;parse'(Ljava/lang/String;)Ljava/lang/Object;argsdatapdataresultTT;(Ljava/lang/String;)TT;error(Ljava/lang/String
;)VmsgcheckMethod.(Ljava/lang/reflect/Method;Ljava/lang/String;
internalParse
(Ljava/util/Map;Ljava/util/Map;valentryEntryLjava/util/Map$Entry;;Ljava/util/Map$Entry<Ljava/lang/String;Ljav
a/lang/String;>;;l(Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;)Ljava/util/Map<Ljava/lang/String;Ljva
ng/Object;>;
getKeyword&(Ljava/lang/String;)Ljava/lang/String;argmakeMap$(Ljava/lang/String;)Ljava/util/Map;J(Ljava/lang
/String;)Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;
makeProxy2(Ljava/util/Map;Ljava/util/Map;)Ljava/lang/Object;defaultDataih%Ljava/lang/reflect/InvocationHandle
r;
interfaces[Ljava/lang/Class;[Ljava/lang/Class<*>;o(Ljava/util/Map<Ljava/lang/String;Ljava/lang/Object;>;Ljava/ut
il/Map<Ljava/lang/String;Ljava/lang/Object;>;)TT;main([Ljava/lang/String;)Vap9Lorg/jvnet/licensesetool/argparser/
ArgParser$TestInterface;fLorg/jvnet/licensesetool/argparser/ArgParser<Lorg/jvnet/licensesetool/argparser/ArgParser$T
estInterface;>;
access$000<(Lorg/jvnet/licensesetool/argparser/ArgParser;)Ljava/util/Map;x0<clinit>()V(<T:Ljava/lang/Object;>Ljav
a/lang/Object;
SourceFileArgParser.javasowCDjava/lang/StringBuilderEFG
is not an interfaceHjkjava/util/HashMapnoIJKLMNO-
org/jvnet/licensesetool/argparser/ElementParserPQR,org/jvnet/licensesetool/argparser/DefaultValueSTUMethod (does
not have a DefaultValue
annotationV$org/jvnet/licensesetool/argparser/HelpqoWXYD[Z[\\]^,]java/util/Collection_`abDcd Legal arguments
are:
efjava/util/ArrayListwghijkjava/lang/String]O - <lm
>
(default)

uvError in argument parser: nopjava/lang/RuntimeExcepionwqr must not have any
parameterssftjava/util/Map$Entryud
is not a valid keywordvdwxyz!No argument supplied for keyword
+org/jvnet/licensesetool/argparser/ArgParser$1w{java/lang/Class}~O)org/jvnet/licensesetool/argparser/ArgParser7org/j
vnet/licensesetool/argparser/ArgParser$TestInterfacewxHelp text for this parser:
Result is:
Fjava/lang/Object4org/jvnet/licensesetool/argparser/ArgParser$StringPair6org/jvnet/licensesetool/argparser/ArgParser$
PrimaryColorisInterface()ZgetNameappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;toString
getMethods()[Ljava/lang/reflect/Method;factory-
Lorg/jvnet/licensesetool/generic/UnaryFunction;+org/jvnet/licensesetool/generic/UnaryFunctionevaluate&(Ljava/lang/O
bject;)Ljava/lang/Object;
java/util/Mapput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;java/lang/reflect/Method

```

getAnnotation4(Ljava/lang/Class;)Ljava/lang/annotation/Annotation;valuegetClass(Ljava/lang/Class;isArrayjava/la  
ng/reflect/Array  
getLength(Ljava/lang/Object;)Iget(Ljava/lang/Object;I)Ljava/lang/Object;iterator()Ljava/util/Iterator;java/util/Iterat  
orhasNextnext(Ljava/lang/Object;keySet()Ljava/util/Set;(Ljava/util/Collection;)Vjava/util/Collectionssort(Ljava/uti  
l/List;)Vjava/util/Listdescribe()[Ljava/lang/String;java/util/logging/LoggerwarninginfogetParameterTypes()[Ljava/l  
ang/Class;entrySet  
java/util/SetgetKeygetValuecharAt(I)C  
substring(I)Ljava/lang/String;L(Lorg/jvnet/licensesetool/argparser/ArgParser;Ljava/util/Map;Ljava/util/Map;)VgetCla  
ssLoader(Ljava/lang/ClassLoader;java/lang/reflect/ProxynewProxyInstance(Ljava/lang/ClassLoader;[Ljava/lang/  
Class;Ljava/lang/reflect/InvocationHandler;)Ljava/lang/Object;cast(Ljava/lang/SystemoutLjava/io/PrintStream;java/io  
/PrintStreamprintln(Ljava/lang/Object;)Ljava/lang/StringBuilder;  
getLogger(Ljava/lang/String;)Ljava/util/logging/Logger;!Ycjklnolpqolrsolt  
uv  
wxy\*+\*Y+  
\*+\*Y  
\*Y  
Y  
M\*N-66-2:\*:\*W: &\*Y  
, W:  
  
\*  
Wa\*\*zZ%\*5@Hdl{{pl}}{x~}  
dPTWkHo  
mHply+ JYM,!W>+"%+#:  
,\$W,%W,&W, +'[YM,!W>+'(:))\*:>  
,\$W,%W,&W, +%zf  
#\*.5?ELQX`gi{\ \*\*?t0`PiGy2YL++W\*,M-Y,.N-/-0:)\*1:\*2:+34W65:6 6  
  
)  
2: 6  
+6W+W  
+7W\*\*28:+9:W\*21: +; <W+<W2+ zb"&D T  
eh  
!{ }q5v0 y-  
T~h>}} D|}."  
"y\*+=M\*,N\*-\*>:z()\*+{4oo\*prlyz,?Y@+ A?\*BCDY+Ez/0#1 {,,}.y.+F+\*Y+G  
z67  
9,;{...yEY  
M+HIN-)e-\*J:K1:\*2:\*YL  
MN:,W,z\*  
?@(A4BDCIDaEqF|GH{R4H|}D8~q(Tkoyo\*(Tpyrly{)+O- +P\*Y+L  
zL  
MO'P{()})y`Y  
MN+:66\*2:-  
\*QN,-WN-\*YR-  
.z.UV  
W#X'YI[;|=WC\_G`^a{R#}  
61.``Xo

V|} `Xply-SY\*+,TNUY\*S:\*\*V-WXzj{4--o-o"\*--r-rl yJYYZ[L\Y]+B ^+\*\_ZM\Y`,a ^z'0I{ J?0?y/\*z{y%  
Yb?zle\*ZYd  
fYg hYi@J S

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```
1(#&validate)(ZRuntimeVisibleAnnotations.Lorg/jvnet/licensetool/argparser/DefaultValue;valuetrue&Lorg/jvnet/licensetool/argparser/Help;fSet to true to validate copyright header; if false, generate/update/insert copyright headers as neededverbosefalseBSet to true to get information about actions taken for every file.dryrun(Set to true to avoid modifying any filesroots)Ljava/util/List; Signature")Ljava/util/List<Ljava/io/File;>;List of directories to processskipdirs&()Ljava/util/List<Ljava/lang/String;>;.List of directory names that should be skipped copyright*(Lorg/jvnet/licensetool/file/FileWrapper;WFile containing text of copyright header. This must not include any comment characters startyear)Ljava/lang/String;19978Default copyright start year, if not otherwise
```

```

specified
SourceFileLicenseTool.java'+org/jvnet/licensetool/LicenseTool$Arguments
ArgumentsInnerClassesjava/lang/Object!org/jvnet/licensetool/LicenseTools s
s s
s s ss ss sss s !%
"$
/*
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* and therefore, elected the GPL Version 2 license, then the option applies
* only if the new code is made subject to such option by the copyright
* holder.
*/
1 A
B

```

CD  
E FGHIJL

MN  
OP

Q  
RS  
RTGUGV  
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OWGX

```
EY[this$0_ShellLikeFileParserInnerClasses=Lorg/jvnet/licensetool/FileParserFactory$ShellLikeFileParser;<init>h(Lorg/jvnet/licensetool/FileParserFactory$ShellLikeFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VCodeLineNumberTableLocalVariableTablethis?Lorg/jvnet/licensetool/FileParserFactory$ShellLikeFileParser$1;x0(Lorg/jvnet/licensetool/file/FileWrapper;
```

```
Exceptions`insertCommentBlock(Ljava/lang/String;)VsplitBlocks$Lorg/jvnet/licensetool/generic/Pair;sheBangBlock"Lorg/jvnet/licensetool/file/Block; restBlock
```

```
firstBlockLineCommentBlock8Lorg/jvnet/licensetool/LineCommentFile$LineCommentBlock;commentTextLjava/lang/String;cb)Lorg/jvnet/licensetool/file/CommentBlock;fBlockLocalVariableTypeTableLorg/jvnet/licensetool/generic/Pair<Lorg/jvnet/licensetool/LineCommentFile$LineCommentBlock;Lorg/jvnet/licensetool/LineCommentFile$LineCommentBlock;>; postParse()V
```

```
SourceFileFileParserFactory.javaEnclosingMethodabcdeTopCommentBlockf+ghijk
```

```
org/jvnet/licensetool/file/Block'org/jvnet/licensetool/file/CommentBlockl6org/jvnet/licensetool/LineCommentFile$LineCommentBlockmn#!opqrstuvwxyz{|n}~=org/jvnet/licensetool/FileParserFactory$ShellLikeFileParser$1Qorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser$LineCommentParsedFileLineCommentFileParserLineCommentParsedFile;org/jvnet/licensetool/FileParserFactory$ShellLikeFileParserjava/io/IOException
```

```
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;h(Lorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VcreateCommentBlock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;addTag
```

```
fileBlocksLjava/util/List;java/util/Listget(I)Ljava/lang/Object;%org/jvnet/licensetool/LineCommentFilecontents()Ljava/lang/String;java/lang/String
startsWith(Ljava/lang/String;)Z
```

```
splitFirst&()Lorg/jvnet/licensetool/generic/Pair;"org/jvnet/licensetool/generic/Pairfirst()Ljava/lang/Object;secondremove(Ljava/lang/Object;)Zadd(ILjava/lang/Object;)Vtrimsize()I;org/jvnet/licensetool/LineCommentFile$LineCommentFileParser'org/jvnet/licensetool/FileParserFactory
```

```
@*+*+,!X"#%&'()*+ a*+M,*N- q-
```

:

```
P:::*W**,**,!J?@AB!C'D4F;HEIOJ[KgLrM~NORSU"R;C,-E9./O/0/e13#%45678/9;C,;:< p* b*
```

```
5*:* ****!Y[+H^Z_]aod"p#%=>?@*^
```

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K2 ZK\ Z]
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l| B
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C DE
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FG
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FHI
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C
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JK
```

```
JLM
```

NOP  
JQRS  
C  
T  
JU  
FVW  
XY

```
Z[]^MultiLineCommentFileParserInnerClassesMultiLineCommentBlockLOGGERLjava/util/logging/Logger;<init>
(VCodeLineNumberTableLocalVariableTablethis,Lorg/jvnet/licensetool/MultiLineCommentFile;parseBlocksp(Lor
g/jvnet/licensetool/file/FileWrapper;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Ljava/util/List;plainStrin
gLjava/lang/String;
commentString
commentEndIfFileContentscommentStartcurrentIndexparsedBlocksLjava/util/List;fw(Lorg/jvnet/licensetool/file/FileWra
pper;startendprefixLocalVariableTypeTable4Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;
Exceptions_
Signature(Lorg/jvnet/licensetool/file/FileWrapper;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Ljava/util/
List<Lorg/jvnet/licensetool/file/Block;>;
access$100()Ljava/util/logging/Logger;<clinit>
SourceFileMultiLineCommentFile.java
`bcdefghjava/util/ArrayListijklm%org/jvnet/licensetool/file/PlainBlocknopqrs@org/jvnet/licensetool/MultiLineCom
mentFile$MultiLineCommentBlockjava/util/HashSetl
%org/jvnet/licensetool/LineCommentFilewxyz{*org/jvnet/licensetool/MultiLineCommentFilejava/lang/ObjectEor
g/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParserjava/io/IOException/org/jvnet/licensetool/
file/FileWrapper$OpenModeOpenModeREAD1Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;&org/jvnet/lic
ensetool/file/FileWrapperopen4(Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;)VreadAsString()Ljava/lang/Stri
ng;java/lang/StringindexOf(Ljava/lang/String;I)
substring(II)Ljava/lang/String;(Ljava/lang/String;)Vjava/util/Listadd(Ljava/lang/Object;)Zlength()IZ(Ljava/lang/Stri
ng;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;)V(I)Ljava/lang/String;closejava/lang/Class
getNamejava/util/logging/Logger getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;! !3*"
4#$$ &'!+
**:6Y:+6 :
```

Y  
W6,+  
`6:,  
` : Y+,- YW,  
`6:

Y  
W-  
:

Y  
W:\*:\*"v9<  
@AF#G)H0J;KLMPN\_OePuQRSUVWY[^\_`cefef#  
:()  
u'\*)\_Z+,()  
()

-)#.#,01234)5)6)7089:;<=>! "4? !%  
"j@A DFa@  
12 "  
#  
\$%&  
'()\*this\$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementParserImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementParserImpl\$12;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/Object;x0Ljava/lang/Object;  
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;  
SourceFileElementParserImpl.javaEnclosingMethod+,-  
./01java/lang/String4org/jvnet/licensetool/argparser/ElementParserImpl\$12java/lang/Object+org/jvnet/licensetool/generic/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg/jvnet/licensetool/generic/UnaryFunction;()Vjava/lang/DoublevalueOf&(Ljava/lang/String;)Ljava/lang/Double;  
  
4  
\*+\*  
  
9+A  
= \*+ !  
1h  
? @A  
?B  
?  
C  
DE  
FGHIJKLMNO  
PHQHR  
STUtagsLjava/util/Set;  
Signature#Ljava/util/Set<Ljava/lang/String;>;<init>(Ljava/util/Set;)VCodeLineNumberTableLocalVariableTablethis  
s"Lorg/jvnet/licensetool/file/Block;LocalVariableTypeTable&(Ljava/util/Set<Ljava/lang/String;>);V()VtoString(Lj  
ava/lang/String;tagLjava/lang/String;i\$Ljava/util/Iterator;sbLjava/lang/StringBuilder;firstZaddTag(Ljava/lang/String  
;)VhasTag(Ljava/lang/String;)ZhasTags([Ljava/lang/String;)Zarr\$[Ljava/lang/String;len\$Iwrite+(Lorg/jvnet/licenset  
ool/file/FileWrapper;)V  
ExceptionsV  
SourceFile  
Block.java\$java/util/HashSetjava/lang/StringBuilderWXYZ&[[]^\_`abcdjava/lang/String ]%&efgf12  
org/jvnet/licensetool/file/Blockjava/lang/Objectjava/io/IOExceptiongetClass()Ljava/lang/Class;java/lang/ClassgetNa  
meappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;  
java/util/Setiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;add(Ljava/lang/Object;)Zcontains!X  
\*\*+34 5  
!  
"  
#\$B\*\*Y789 !%&\_YL+\*  
W=\*N(-  
:=

+ W+ W+ W+2<=>?9@=A?BBCIFPGSHZI49'(%.)\*\_  
!W+,D-./0D\*+W  
QR !(12?\*+X !(34'+M,>6,2:\*\_`a\_%c>(#56 78)8' !'69:;<=>  
l  
.n op  
q r s t u v  
w  
x  
yz{ } ~ }  
q  
  
y  
{ { {  
q  
  
{  
  
{  
  
,

```
commentStart$Lorg/jvnet/licensetool/generic/Pair;
SignatureJLorg/jvnet/licensetool/generic/Pair<Ljava/lang/String;Ljava/lang/String;>;commentLinesLjava/util/List;\
Ljava/util/List<Lorg/jvnet/licensetool/generic/Pair<Ljava/lang/String;Ljava/lang/String;>;>;
commentEndprefixLjava/lang/String;startend<init>Z(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/la
ng/String;Ljava/util/Set;)VCodeLineNumberTableLocalVariableTablethisMultiLineCommentBlockInnerClassesBL
org/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentBlock;multiLineCommenttagsLjava/util/Set;Local
VariableTypeTable#Ljava/util/Set<Ljava/lang/String;>;n(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Lja
va/lang/String;Ljava/util/Set<Ljava/lang/String;>;)VX(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Lj
ava/lang/String;Ljava/util/Set<Ljava/lang/String;>;)V$Ljava/util/List<Ljava/lang/String;>;(Ljava/lang/String;Lj
ava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;
Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;
stri$Ljava/util/Iterator;commentTextline_separatorcommentTextBlockdataAsLinesreplace6(Ljava/lang/String;)Lorg
/jvnet/licensetool/file/Block;content
parsedDatacontents()Ljava/lang/String;linesbLjava/lang/StringBuilder;commentparse(Ljava/util/List;)VstartComme
ntSuffixstartCommentPrefixrestendindexIindexidata'(Ljava/util/List<Ljava/lang/String;>;)V(Ljava/lang/String;)V
SourceFileMultiLineCommentFile.java;0java/util/ArrayList;346098:878`k`ajava/lang/Stringjava/lang/StringBuilder
[@org/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentBlockjava/util/HashSet;J"org/jvnet/licensetool/
generic/Pair;[java/lang/RuntimeException-Comment
block does n't contain start marker ;k*Comment block does n't contain end marker
'org/jvnet/licensetool/file/CommentBlock(Ljava/util/Set;)V(V#org/jvnet/licensetool/util/ToolUtilsplitToLines$(Lj
ava/lang/String;)Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/
Object;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;covertLineBreak8(Ljava/lang/String;Ljava/lang/String;)Ljava/lang/Stri
ng;toStringadd(Ljava/lang/Object;)Z(ILjava/lang/Object;)Vsize(I*org/jvnet/licensetool/MultiLineCommentFilefirst
```



'(Ljava/lang/Object;Ljava/lang/Object;)Vclearsecondtrimequalsget(I)Ljava/lang/Object;indexOf(Ljava/lang/String;)I  
length substring(II)Ljava/lang/String;(I)Ljava/lang/String;!/012341560127898:8;<=1\*\*\*Y\*\*+\*,\*\_\*<br>>& ?678@<br>A%B\*C0D?>1@C1981:81781D81EFG1EH1I;J=1\*\*\*Y\*\*+\*,\*\_\*>& G678H<br>I%J\*K0L?>1@C1981:81781D41EFG1DK1EH1L MN=A Y:-<br>:2:Y,WY\*+Y\*+,Y>"P QR.SNTQUIV{W?\. O89PQ98:878R8S8 T4U4G TKUKVW=m\*Y\* \*!+M,<br>N-(\*Y\* W\*Y\*" \*>"[ ]"^=\_T`Wakb?4=O8).PQm@CmX8"KY4G"KYKZ[=YL+\*W+\*"W\*  
M,(N+-W+-"W+\*W+\*"W+>\*<br>fgh&iCjOk[l^mmn|o?\*C\00.PQ@Cy]^GC\2\_[=YL\*"#\$+\*"W\*  
M,,N+-"W\*#\$+\*W+>& stu,vIwUxXymz{|?\*I\06"PQ@Cy]^GI\2`a=u \_+=U+%N-\*&6!YY(\*)-\*\*\*`+:-  
\*\*`.\*&6\$+.\*Y,<br>:\*Y +dK-\*&6!YY-\*)\*Y-+-, W-\* &6\*Y- W1\*Y-\* \*`+-\* \*`,<br>W>r%\*HYity\*X^?zb8YTc8b8iDd8t9ef%gf;gfJgfAO8\hf\_@C\_i4G\_iK1j`k=c+M\*,><br>? @Ci8U4GUKlmB<br>A<br>lvalue()Ljava/lang/String;AnnotationDefault<br>SourceFileSeparator.javaRuntimeVisibleAnnotations!Ljava/lang/annotation/Documented;Ljava/lang/annotation/Tar<br>get;"Ljava/lang/annotation/ElementType;METHOD<br>Ljava/lang/annotation/Retention;&Ljava/lang/annotation/RetentionPolicy;RUNTIME)org/jvnet/licensesetool/argparse<br>r/Separatorjava/lang/Objectjava/lang/annotation/Annotation&s<br>[e<br>e<br>l !Q<br>"R<br>!ST<br>U !VWXYZW[<br>!]<br>^<br>\_`a<br>bc<br>de<br>fgh<br>i<br>j<br>kl<br>kmWn<br>UWo%<br>p<br>"qrrthis\$0wInnerClasses+Lorg/jvnet/licensesetool/FileParserFactory\$2;<init>V(Lorg/jvnet/licensesetool/FileParserFacto<br>ry\$2;Lorg/jvnet/licensesetool/file/FileWrapper;VCodeLineNumberTableLocalVariableTablethis-<br>Lorg/jvnet/licensesetool/FileParserFactory\$2\$1;x0(Lorg/jvnet/licensesetool/file/FileWrapper;<br>ExceptionsxinsertCommentBlock(Ljava/lang/String;VsplitBlocks\$Lorg/jvnet/licensesetool/generic/Pair;xmlDeclarati<br>on"Lorg/jvnet/licensesetool/file/Block; restOfXml<br>plainBlockLorg/jvnet/licensesetool/file/PlainBlock;linesLjava/util/List;<br>firstLineLjava/lang/String;commentTextcb)Lorg/jvnet/licensesetool/file/CommentBlock;<br>firstBlockLocalVariableTypeTablejLorg/jvnet/licensesetool/generic/Pair<Lorg/jvnet/licensesetool/file/Block;Lorg/jvnet/<br>licensesetool/file/Block;>;\$Ljava/util/List<Ljava/lang/String;>; postParse()Vilcontentb<br>SourceFileFileParserFactory.javaEnclosingMethodyz#({})TopCommentBlock~4=

org/jvnet/licensetool/file/Block'org/jvnet/licensetool/file/CommentBlock%org/jvnet/licensetool/file/PlainBlockjava/  
ang/String<?xml?>java/lang/RuntimeExceptionNeeds  
special  
handling(4GH+org/jvnet/licensetool/FileParserFactory\$2\$1\org/jvnet/licensetool/MultiLineCommentFile\$MultiLin  
eCommentFileParser\$BlockCommentParsedFileMultiLineCommentFileParserBlockCommentParsedFile)org/jvnet/l  
icensetool/FileParserFactory\$2java/io/IOException  
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;r(Lorg/jvnet/licensetool/  
MultiLineCommentFile\$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VcreateCommentBl  
ock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;addTag  
fileBlocksjava/util/Listget(I)Ljava/lang/Object;add(ILjava/lang/Object;)VadjustBlockAtIndex(I)Vcontents(Ljava/la  
ng/String;#org/jvnet/licensetool/util/ToolUtilsplitToLines\$(Ljava/lang/String;)Ljava/util/List;trim  
startsWith(Ljava/lang/String;)ZendsWith  
splitFirst&()Lorg/jvnet/licensetool/generic/Pair;"org/jvnet/licensetool/generic/Pairfirst()Ljava/lang/Object;secondre  
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Lorg/jvnet/licensetool/file/CommentBlock;tagsLjava/util/Set;LocalVariableTypeTable#Ljava/util/Set<Ljava/lang/St  
ring;>;  
Signature&(Ljava/util/Set<Ljava/lang/String;>);V()Vreplace6(Ljava/lang/String;)Lorg/jvnet/licensetool/file/Block;c  
ontents(Ljava/lang/String;write+(Lorg/jvnet/licensetool/file/FileWrapper;)Vfw(Lorg/jvnet/licensetool/file/FileWrap  
per;  
Exceptions<commentfind&(Ljava/lang/String;)Ljava/lang/String;search  
SourceFileCommentBlock.javaCommentBlock=>? !@"ABC'D'org/jvnet/licensetool/file/CommentBlock  
org/jvnet/licensetool/file/BlockTopCommentBlockjava/io/IOException  
java/util/Setadd(Ljava/lang/Object;)Z&org/jvnet/licensetool/file/FileWrapper(Ljava/lang/String;)Vjava/lang/Stringc  
ontains(Ljava/lang/CharSequence;)Z!

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 SignatureeLjava/lang/Object;Lorg/jvnet/licensesetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;  
 SourceFileElementParserImpl.javaEnclosingMethod+,-  
 ./01java/lang/String4org/jvnet/licensesetool/argparser/ElementParserImpl\$10java/lang/Object+org/jvnet/licensesetool/generic/UnaryFunction1org/jvnet/licensesetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg/jvnet/licensesetool/generic/UnaryFunction;()Vjava/lang/LongvalueOf\$(Ljava/lang/String;)Ljava/lang/Long;

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 SourceFileFileParserFactory.javaEnclosingMethodab!"cjava/util/ArrayList"defghijklmnojava/lang/Stringjava/lang/StringBuilderp0qrs0tuvwxyz0x{}}  
 ~0@org/jvnet/licensesetool/MultiLineCommentFile\$MultiLineCommentBlockMultiLineCommentBlockjava/util/HashSet"+org/jvnet/licensesetool/FileParserFactory\$1\$1\org/jvnet/licensesetool/MultiLineCommentFile\$MultiLineCommentFileParser\$BlockCommentParsedFileMultiLineCommentFileParserBlockCommentParsedFile)org/jvnet/licensesetool/FileParserFactory\$1java/io/IOException  
 parseFileQ(Lorg/jvnet/licensesetool/file/FileWrapper;)Lorg/jvnet/licensesetool/file/ParsedFile;r(Lorg/jvnet/licensesetool/MultiLineCommentFile\$MultiLineCommentFileParser;Lorg/jvnet/licensesetool/file/FileWrapper;)V()V#org/jvnet/licensesetool/util/ToolUtil\$splitToLines\$(Ljava/lang/String;)Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;prefixappend-

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(Ljava/lang/String;)Ljava/lang/StringBuilder;line_separatorconvertLineBreak8(Ljava/lang/String;Ljava/lang/String;)
Ljava/lang/String;toString()Ljava/lang/String;add(Ljava/lang/Object;)Zstart(ILjava/lang/Object;)Vsize()Iend*org/jv
net/licensetool/MultiLineCommentFileX(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/util/List;Ljav
a/util/Set;)VEorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParser
!"#$%&*+*,%&'()*+,-.$UYM+N-:9 :,
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arserImpl;<init>f(Lorg/jvnet/licensetool/argparser/ElementParserImpl;Ljava/lang/reflect/Constructor;Ljava/lang/Cla
ss;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementParserIm
pl$13;evaluate&(Ljava/lang/String;)Ljava/lang/Object;e1-
Ljava/lang/reflect/InvocationTargetException;e2Ljava/lang/Exception;strLjava/lang/String;&(Ljava/lang/Object;)Lj
ava/lang/Object;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethodUVW
Xjava/lang/ObjectYZ[+java/lang/reflect/InvocationTargetExceptionjava/lang/RuntimeIOExceptionjava/lang/StringBui
lder\]_^`&(String) constructor threw exception: ab_cd^ ejava/lang/Exception
Exception occurred in calling constructor
(String)java/lang/String)*4org/jvnet/licensetool/argparser/ElementParserImpl$13+org/jvnet/licensetool/generic/Una
ryFunction1org/jvnet/licensetool/argparser/ElementParserImplmakeClassConverter@(Ljava/lang/Class;)Lorg/jvnet/
licensetool/generic/UnaryFunction;()Vjava/lang/reflect/ConstructornewInstance'([Ljava/lang/Object;)Ljava/lang/Obj
ect;java/lang/ClassgetName()Ljava/lang/String;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;getTargetException()Ljava/lang/Throwable;-
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this  
ResultDataInnerClasses>Lorg/jvnet/licensetool/argparser/ElementParserImpl\$ResultData;func-  
Lorg/jvnet/licensetool/generic/UnaryFunction;desc[Ljava/lang/String;LocalVariableTypeTableSLorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;  
Signaturei(Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;[Ljava/lang/String;)VLorg/jvnet/licensetool/generic/Pair<Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;[Ljava/lang/String;>;  
SourceFileElementParserImpl.java  
!<org/jvnet/licensetool/argparser/ElementParserImpl\$ResultData"org/jvnet/licensetool/generic/Pair'(Ljava/lang/Object;Ljava/lang/Object;)Vlorg/jvnet/licensetool/argparser/ElementParserImpl d\*+\*, -  
ABC

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evaluate8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;  
Signature(TS;TT;)TR;P<S:Ljava/lang/Object;T:Ljava/lang/Object;R:Ljava/lang/Object;>Ljava/lang/Object;  
SourceFileBinaryFunction.java,org/jvnet/licensetool/generic/BinaryFunctionjava/lang/Object

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qrstLineCommentFileParserInnerClassesLineCommentBlockLOGGERLjava/util/logging/Logger;<init>()VCodeLineNumberTableLocalVariableTablethis'Lorg/jvnet/licensetool/LineCommentFile;parseBlocksM(Lorg/jvnet/licensetool/file/FileWrapper;[Ljava/lang/String;)Ljava/util/List;lineLjava/lang/String;i\$Ljava/util/Iterator;fileAsLinesLjava/util/List;fw(Lorg/jvnet/licensetool/file/FileWrapper;prefixes[Ljava/lang/String;inCommentZresultsbLjava/lang/StringBuilder;LocalVariableTypeTable\$Ljava/util/List<Ljava/lang/String;>;4Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;  
Exceptionsu  
Signatureq(Lorg/jvnet/licensetool/file/FileWrapper;[Ljava/lang/String;)Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;  
startsWith((Ljava/lang/String;[Ljava/lang/String;)Zprefixarr\$len\$Istr

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access$000()Ljava/util/logging/Logger;<clinit>
SourceFileLineCommentFile.java$%&'java/util/ArrayListjava/lang/StringBuildervxyz{|}~java/lang/StringEF6org/jv
net/licensetool/LineCommentFile$LineCommentBlock~java/util/HashSet&%org/jvnet/licensetool/file/PlainBlock&'
E%org/jvnet/licensetool/LineCommentFile~java/lang/Object;org/jvnet/licensetool/LineCommentFile$LineCommen
tFileParserjava/io/IOException/org/jvnet/licensetool/file/FileWrapper$OpenModeOpenModeREAD1Lorg/jvnet/lice
nsetool/file/FileWrapper$OpenMode;&org/jvnet/licensetool/file/FileWrapperopen4(Lorg/jvnet/licensetool/file/File
Wrapper$OpenMode;)VreadAsString()Ljava/lang/String;#org/jvnet/licensetool/util/ToolUtilsplitToLines$(Ljava/lang
/String;)Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object
;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString6(Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;)Vadd(Lja
va/lang/Object;Zlength()I(Ljava/lang/String;)Vclose(Ljava/lang/String;)Zjava/lang/ClassgetNamejava/util/logging/
Logger getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!$%&'(3*)
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:J+Wx-Y+2YWY:=WE+4-YW=Y:WW];#-Y+2YW-YW-:.*:*)!
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evaluate(Ljava/lang/Object;)Z Signature(TT;Z(<T:Ljava/lang/Object;>Ljava/lang/Object;
SourceFileUnaryBooleanFunction.java2org/jvnet/licensetool/generic/UnaryBooleanFunctionjava/lang/Object
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')*this$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementPar
serImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementPar
serImpl$11;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/
Object;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String4org/jvnet/licensetool/argparser/ElementParserImpl$11java/lang/Object+org/jvnet/licensetool/ge
neric/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lor
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mberTableLocalVariableTablethis)Lorg/jvnet/licensetool/FileParserFactory;createJavaFileParser()Lorg/jvnet/licens
etool/file/FileParser;JAVA_COMMENT_STARTLjava/lang/String;JAVA_COMMENT_PREFIXJAVA_COMME
NT_ENDcreateJSPFileParserJSP_COMMENT_STARTJSP_COMMENT_PREFIXJSP_COMMENT_ENDcreateX
MLFileParserXML_COMMENT_STARTXML_COMMENT_PREFIXXML_COMMENT_END
access$000()Ljava/util/logging/Logger;<clinit>
SourceFileFileParserFactory.java/* **/)org/jvnet/licensetool/FileParserFactory$1N<%----
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>)org/jvnet/licensetool/FileParserFactory$2'org/jvnet/licensetool/FileParserFactoryPQRSTUjava/lang/Object8org/jv
net/licensetool/FileParserFactory$BinaryFileParser;org/jvnet/licensetool/FileParserFactory$ShellLikeFileParser9(Lj
ava/lang/String;Ljava/lang/String;Ljava/lang/String;)V*org/jvnet/licensetool/MultiLineCommentFilejava/lang/Class
getName()Ljava/lang/String;java/util/logging/Logger getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!
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!"#$%&'()*+,-./:;<=>?@AB
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!COPYRIGHT_BLOCK_TAGLjava/lang/String;
ConstantValue"SUN_COPYRIGHT_TAG#CORRECT_COPYRIGHT_TAG$JAVA_FORMAT_TAG%JAVA_LI
NE_FORMAT_TAG&XML_FORMAT_TAG'SCHEME_FORMAT_TAG(SHELL_FORMAT_TAG)<init>()VCod
eLineNumberTableLocalVariableTablethisLorg/jvnet/licensetool/Tags;
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JavaFormatJavaLineFormat XmlFormatSchemeFormatShellFormat!

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::<=this$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementPa
rserImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses5Lorg/jvnet/licensetool/argparser/ElementPa
rserImpl$7;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/O
bject;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod>?@ABCjava/lang/RuntimeExceptionjava/lang/StringBuilderSt
ring "DES" cannot be converted to a
CharacterFGHIJKLMjava/lang/String3org/jvnet/licensetool/argparser/ElementParserImpl$7java/lang/Object+org/jv
net/licensetool/generic/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljav

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a/lang/Class;)Lorg/jvnet/licensetool/generic/UnaryFunction;()Vlength()Iappend-  
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;(Ljava/lang/String;)VcharAt(I)Cjava/lang/  
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ging/Logger;<init>(ZLjava/util/List;)VCodeLineNumberTableLocalVariableTablethisLorg/jvnet/licensetool/Scanne  
r;filesLocalVariableTypeTable\$(ZLjava/util/List<Ljava/io/File;>);V(ZZ[Ljava/io/File;)Vverbose[Ljava/io/File;add  
DirectoryToSkip(Ljava/lang/String;)VpatternLjava/lang/String;scanT(Lorg/jvnet/licensetool/file/FileRecognizer;Lor  
g/jvnet/licensetool/Scanner\$Action;)ZfileLjava/io/File;i\$Ljava/util/Iterator;  
recognizer+Lorg/jvnet/licensetool/file/FileRecognizer;action&Lorg/jvnet/licensetool/Scanner\$Action;resultdoScanb  
(Ljava/io/File;Lorg/jvnet/licensetool/file/FileRecognizer;Lorg/jvnet/licensetool/Scanner\$Action;)Zfarr\$len\$Ippfile'Lo  
rg/jvnet/licensetool/file/ParsedFile;parser'Lorg/jvnet/licensetool/file/FileParser;excLjava/io/IOException;Ljava/lang/  
Exception;fw(Lorg/jvnet/licensetool/file/FileWrapper;  
skipDirectory(Ljava/io/File;)ZabsPathmatch'(Ljava/lang/String;Ljava/lang/String;)Ztokenfname  
separatorstLjava/util/StringTokenizer;<clinit>()V  
SourceFileScanner.javaG }=>ABjava/util/ArrayListC>GHjava/io/Filecdrs&org/jvnet/licensetool/file/FileWrapperG



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EFjava/lang/StringBuilderUnrecognized
file: U}java/io/IOException Exception while processing file : }java/lang/Exceptionjava/lang/StringuvScanner:
Skipping directory (pattern)U Scanner: Not skipping directory yWjava/util/StringTokenizerGfname matched on
pattern
org/jvnet/licensetool/Scannerjava/lang/Object$org/jvnet/licensetool/Scanner$Actionjava/util/ArraysasList%([Ljava/l
ang/Object;)Ljava/util/List;java/util/Listadd(Ljava/lang/Object;)Ziterator()Ljava/util/Iterator;java/util/IteratorhasNex
t()Znext()Ljava/lang/Object;isDirectory
listFiles()[Ljava/io/File;(Ljava/io/File;)V)org/jvnet/licensetool/file/FileRecognizer
getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/FileParser;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;java/util/logging/Loggerwarningclose%or
g/jvnet/licensetool/file/FileParser
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;evaluateprintStackTraceg
etAbsolutePath(Ljava/lang/String;Ljava/lang/String;)V
hasMoreTokens nextTokenequalsjava/lang/ClassgetName
getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!69=>?@ABC>?D
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<init>()VCodeLineNumberTableLocalVariableTablethisFileContentRecognizerInnerClasses?Lorg/jvnet/licensetool/
RecognizerFactory$FileContentRecognizer;
getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/FileParser;file(Lorg/jvnet/licensetool
/file/FileWrapper;
SourceFileRecognizerFactory.java=org/jvnet/licensetool/RecognizerFactory$FileContentRecognizerjava/lang/Objec
t)org/jvnet/licensetool/file/FileRecognizer'org/jvnet/licensetool/RecognizerFactory!/*

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!#<init>9(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisInnerClasses+Lorg/jvnet/licensesetool/FileParserFactory\$1;x0Ljava/lang/String;x1x2

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parseFileQ(Lorg/jvnet/licensesetool/file/FileWrapper;)Lorg/jvnet/licensesetool/file/ParsedFile;file(Lorg/jvnet/licensesetool/file/FileWrapper;

SourceFileFileParserFactory.javaEnclosingMethod&'(+org/jvnet/licensesetool/FileParserFactory\$1\$1))org/jvnet/licensesetool/FileParserFactory\$1\*Eorg/jvnet/licensesetool/MultiLineCommentFile\$MultiLineCommentFileParserMultiLineCommentFileParserjava/io/IOException'org/jvnet/licensesetool/FileParserFactorycreateJavaFileParser()(Lorg/jvnet/licensesetool/file/FileParser;V(Lorg/jvnet/licensesetool/FileParserFactory\$1;Lorg/jvnet/licensesetool/file/FileWrapper;)V\*org/jvnet/licensesetool/MultiLineCommentFile P\*+,-

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access\$200n(Lorg/jvnet/licensetool/ActionFactory;Lorg/jvnet/licensetool/file/Block;Ljava/lang/String;Ljava/lang/String;VgetComments()Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;hasTags([Ljava/lang/String;)ZhasTag(Ljava/lang/String;)Z%org/jvnet/licensetool/file/PlainBlockcontentscomment#org/jvnet/licensetool/util/ToolUtilareCommentsEqual'(Ljava/lang/String;Ljava/lang/String;)Zorg/jvnet/licensetool/Scanner

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#Generated by Maven

#Tue Apr 08 18:47:11 PDT 2008

version=1.0-SNAPSHOT

groupId=org.jvnet.licensetool

artifactId=license-tool

lvalue()Ljava/lang/String;AnnotationDefault

SourceFile

Help.javaRuntimeVisibleAnnotations!Ljava/lang/annotation/Documented;Ljava/lang/annotation/Target;"Ljava/lang/annotation/ElementType;METHOD

Ljava/lang/annotation/Retention;&Ljava/lang/annotation/RetentionPolicy;RUNTIME\$org/jvnet/licensetool/argparser/Helpjava/lang/Objectjava/lang/annotation/Annotation&s

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etool/LineCommentFile$LineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VCodeLineNumberTabl
eLocalVariableTablethisLineCommentParsedFileSLorg/jvnet/licensetool/LineCommentFile$LineCommentFilePars
er$LineCommentParsedFile;originalFile(Lorg/jvnet/licensetool/file/FileWrapper;
Exceptions
postParse()VsniffLineSeparator()Ljava/lang/String;blockContentb"Log/jvnet/licensetool/file/Block;i$Ljava/util/Iter
ator;
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ommentBlock;>;=()Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;insertCommentBlock(Ljava/lang/St
ring;)VcommentTextcb)Log/jvnet/licensetool/file/CommentBlock;adjustBlockAtIndex(I)VcontentIremove,(Lorg/j
vnet/licensetool/file/CommentBlock;)VwriteTo+(Lorg/jvnet/licensetool/file/FileWrapper;)VblockfwcreateComment
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SourceFileLineCommentFile.java:>?h45java/util/ArrayList?KLMN89'org/jvnet/licensetool/file/CommentBlock
org/jvnet/licensetool/file/BlockTopCommentBlock\%org/jvnet/licensetool/file/PlainBlockNMLine.separator?Lk`a`?
eLhjava/lang/StringBuilderSkipping file because is is not
writableN\L9kQorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser$LineCommentParsedFile%org/jv
net/licensetool/file/ParsedFile;org/jvnet/licensetool/LineCommentFile$LineCommentFileParserjava/io/IOException
parseBlocks:(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;(Ljava/util/Collection;)Vjava/util/Listget(I)Lja
va/lang/Object;addTagiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;contents#org/j
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ject;)Z(ILjava/lang/Object;)Vjava/lang/String
startsWith(Ljava/lang/String;)Z&org/jvnet/licensetool/file/FileWrappercanWritedelete/org/jvnet/licensetool/file/File
Wrapper$OpenModeOpenModeWRITE1Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;open4(Lorg/jvnet/lic
ensetool/file/FileWrapper$OpenMode;)Vwrite%org/jvnet/licensetool/LineCommentFile
access$000()Ljava/util/logging/Logger;append-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;toStringjava/util/logging/LoggerinfoCloseprefix6org/jvnet/licensetool/
LineCommentFile$LineCommentBlockLineCommentBlocka(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;
)Lorg/jvnet/licensetool/file/CommentBlock;!23456789:> ?@Ax,*+*,**Y+,*B
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W+B%,7:C%PQ(RS<DF4W5X4WY6Z[\Ak*+M,
*,*BC DF]9^`aA?*
M,,N-* *Y* B(>C*b9?DF?cd1PQefAD*+ WB
CDF^_ghAi+!6+"+#*M,,N-+% !&'Y()*+*,*-.+:/X__a_B6
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rg/jvnet/licensesetool/file/PlainBlock;tagsLjava/util/Set;LocalVariableTypeTable#Ljava/util/Set<Ljava/lang/String;>;
Signature8(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;)V(Ljava/lang/String;)V+(Lorg/jvnet/licensesetool/fil
e/FileWrapper;)Vfw(Lorg/jvnet/licensesetool/file/FileWrapper;
Exceptionscontents(Ljava/lang/String;writeequals(Ljava/lang/Object;)ZobjLjava/lang/Object;blockobjdatahashCod
e()InstantiateTemplate8(Ljava/util/Map;)Lorg/jvnet/licensesetool/file/PlainBlock;tokenreplacement
parametersLjava/util/Map;sbLjava/lang/StringBuilder;stLjava/util/StringTokenizer;
isKeywordZ5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;^(Ljava/util/Map<Ljava/lang/String;Ljava/lang/
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splitFirst&()Lorg/jvnet/licensesetool/generic/Pair;flinerest
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SourceFilePlainBlock.java&$%&::3%org/jvnet/licensesetool/file/PlainBlock<=BCjava/lang/StringBuilderjava/util/Str
ingTokenizer@&;java/lang/String:&3(+?)^Y:C"org/jvnet/licensesetool/generic/Pair-.'&&
org/jvnet/licensesetool/file/Blockjava/io/IOException(Ljava/util/Set;)V()V/org/jvnet/licensesetool/file/FileWrapper$Ope
nModeOpenModeInnerClassesREADILorg/jvnet/licensesetool/file/FileWrapper$OpenMode;&org/jvnet/licensesetool/fi
le/FileWrapperopen4(Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;)VreadAsStringclose'(Ljava/lang/String;L
java/lang/String;)V
hasMoreTokens()Z nextToken
java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toStringjava/util/regex/Patterncompile.(Ljava/lang/String;)I)Ljava/util/r
egex/Pattern;3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;java/util/regex/Matcherfindgroupend
substring(I)Ljava/lang/String;(Ljava/lang/Object;Ljava/lang/Object;)V! #$$% &'(c*,*+)56
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StringPairInnerClasses6Lorg/jvnet/licensetool/argparser/ArgParser\$StringPair;dataLjava/lang/String;indexI  
SignatureJLorg/jvnet/licensetool/generic/Pair<Ljava/lang/String;Ljava/lang/String;>;  
SourceFileArgParser.java2345"java/lang/IllegalArgumentExceptionjava/lang/StringBuilder678 does not contain a  
:9;:<=>?@>A4org/jvnet/licensetool/argparser/ArgParser\$StringPair"org/jvnet/licensetool/generic/Pair'(Ljava/lang/  
Object;Ljava/lang/Object;)Vjava/lang/StringindexOf(I)I)Vappend-  
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;  
substring(II)Ljava/lang/String;firstLjava/lang/Object;(I)Ljava/lang/String;second)org/jvnet/licensetool/argparser/Ar  
gParser!B\*+:=YY+ \*+  
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/file/FileParser;)VCodeLineNumberTableLocalVariableTablethisFileSuffixRecognizerInnerClasses>Lorg/jvnet/lice  
nsetool/RecognizerFactory\$FileSuffixRecognizer;  
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/file/FileWrapper;  
SourceFileRecognizerFactory.java!  
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bject;x0Ljava/lang/Object;
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SourceFileElementParserImpl.javaEnclosingMethod+,-
/01java/lang/String3org/jvnet/licensetool/argparser/ElementParserImpl$8java/lang/Object+org/jvnet/licensetool/gen
eric/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg
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l/file/FileWrapper;
Exceptions)
SourceFileFileParserFactory.java
*+,java/lang/StringBuilder Skipped: -.-
/012348org/jvnet/licensetool/FileParserFactory$BinaryFileParser%org/jvnet/licensetool/file/FileParserjava/io/IOExc
eption'org/jvnet/licensetool/FileParserFactory
access$000(Ljava/util/logging/Logger;append-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
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censetool/LicenseTool$I;format1(Ljava/util/logging/LogRecord;)Ljava/lang/String;swLjava/io/StringWriter;pwLja
va/io/PrintWriter;exLjava/lang/Exception;recordLjava/util/logging/LogRecord;sbLjava/lang/StringBuffer;message
SourceFileLicenseTool.javaEnclosingMethodSTW%sun/security/action/GetPropertyActionline.separatorXYZ[java/l
ang/Stringjava/lang/StringBuffer\']^_`abcd:
efjava/io/StringWriterjava/io/PrintWriterghijklbjava/lang/Exception#org/jvnet/licensetool/LicenseTool$Ijava/util/lo
gging/Formatter!org/jvnet/licensetool/LicenseToolprocessm
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doPrivileged4(Ljava/security/PrivilegedAction;)Ljava/lang/Object;
formatMessagejava/util/logging/LogRecordgetLevel()Ljava/util/logging/Level;java/util/logging/LevelgetLocalized
Name()Ljava/lang/String;append,(Ljava/lang/String;)Ljava/lang/StringBuffer;
getThrown()Ljava/lang/Throwable;(Ljava/io/Writer;)Vjava/lang/ThrowableprintStackTrace(Ljava/io/PrintWriter;)V
closetoString+org/jvnet/licensetool/LicenseTool$Arguments
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JKfirstLjava/lang/Object;

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his$Lorg/jvnet/licensetool/generic/Pair;LocalVariableTypeTable.Lorg/jvnet/licensetool/generic/Pair<TS;TT;>;
```

```
(TS;TT;)V(Ljava/lang/Object;)V(TS;)V(V)Ljava/lang/Object;()TS;()TT;equals(Ljava/lang/Object;)ZobjpairhashC
ode()IresultItoString()Ljava/lang/String;<<S:Ljava/lang/Object;T:Ljava/lang/Object;>Ljava/lang/Object;
```

SourceFile

```
Pair.java%"org/jvnet/licensesetool/generic/PairLMN(+,(/0java/lang/StringBuilderPair[OPOQ,]34java/lang/Objectjava
/lang/Classcast&(Ljava/lang/Object;)Ljava/lang/Object;append-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;!**+*,./ 01 !" #$$%[*+
45 !" #&'F*
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serImpl$5;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/O
bject;x0Ljava/lang/Object;
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SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String3org/jvnet/licensesetool/argparser/ElementParserImpl$5java/lang/Object+org/jvnet/licensesetool/gen
eric/UnaryFunction1org/jvnet/licensesetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg
/jvnet/licensesetool/generic/UnaryFunction;()Vjava/lang/BooleanvalueOf(Ljava/lang/String;)Ljava/lang/Boolean;

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util/List;=Ljava/util/List<Lorg/jvnet/licensesetool/file/FileRecognizer;>;<init>()VCodeLineNumberTableLocalVariab
leTablethisCompositeRecognizerInnerClasses=Lorg/jvnet/licensesetool/RecognizerFactory$CompositeRecognizer;
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```

ognizer#\$PQRSTUVWXYZ[\;org/jvnet/licensetool/RecognizerFactory\$CompositeRecognizerjava/lang/Object&org  
/jvnet/licensetool/file/FileWrapper getSuffix()Ljava/lang/String;  
java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;java/util/Listiterator()Ljava/util/Iterator;java/util/Iteratorha  
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!#<init>9(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisIn  
nerClasses+Lorg/jvnet/licensetool/FileParserFactory\$2;x0Ljava/lang/String;x1x2

Exceptions%

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l/file/FileWrapper;

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censetool/file/FileParser;V(Lorg/jvnet/licensetool/FileParserFactory\$2;Lorg/jvnet/licensetool/file/FileWrapper;)V\*o  
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getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/FileParser;file(Lorg/jvnet/licensetool  
/file/FileWrapper;isShellFile+(Lorg/jvnet/licensetool/file/FileWrapper;)ZstrLjava/lang/String;excLjava/io/IOExcepti  
on;

SourceFileRecognizerFactory.javaEnclosingMethodQRST()U;org/jvnet/licensetool/FileParserFactory\$ShellLikeFile  
ParserShellLikeFileParser#VWXYZ[\]^\_#!`abcTjava/io/IOExceptiondejava/lang/StringBuilderCould not read file  
fgfh to check for shell

scripti\_jkV)org/jvnet/licensetool/RecognizerFactory\$1=org/jvnet/licensetool/RecognizerFactory\$FileContentRecog  
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ine()Ljava/lang/String;java/lang/String

startsWith(Ljava/lang/String;)Zclose

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(Ljava/lang/Object;)Ljava/lang/StringBuilder;toStringjava/util/logging/Loggerwarning

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ct/Method;&(Ljava/lang/Object;)Ljava/lang/Object;x0Ljava/lang/Object;

SignatureLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/reflect/Method;Lorg/jvnet/lic  
ensetool/argparser/ElementParser;>;

SourceFileElementParser.javaEnclosingMethod'

lorg/jvnet/licensetool/argparser/ElementParserImpl

(java/lang/reflect/Method/org/jvnet/licensetool/argparser/ElementParser\$1java/lang/Object+org/jvnet/licensetool/ge  
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Ljava/util/List<Ljava/io/File;>;skipdirs\$Ljava/util/List<Ljava/lang/String;>;  
copyright(Lorg/jvnet/licensetool/file/FileWrapper;  
startyearLjava/lang/String;dryrunsrcDirLjava/io/File;<init>()VCodeLineNumberTableLocalVariableTablethis'Lorg/  
jvnet/licensetool/LicenseToolTask; setSrcDir(Ljava/io/File;)VsetValidate(Z)V  
setVerbose  
setDryrunsetCopyrightsetStartyear(Ljava/lang/String;)VsetSkipdirsgetDirectoryScanner7(Ljava/io/File;)Lorg/apach  
e/tools/ant/DirectoryScanner;baseDirexecutesfilerelPatharr\$[Ljava/lang/String;len\$Ii\$filesargs }  
ArgumentsInnerClasses-Lorg/jvnet/licensetool/LicenseTool\$Arguments;  
Exceptions~  
SourceFileLicenseToolTask.java12!"#"java/util/ArrayList\$%."/0&org/jvnet/licensetool/file/FileWrapper19\*+,-  
,(%9BRunning LicenseToolTask  
BCjava/io/File1'org/jvnet/licensetool/LicenseToolTask\$11%org/jvnet/licensetool/LicenseToolTask\*org/apache/tool  
s/ant/taskdefs/MatchingTask+org/jvnet/licensetool/LicenseTool\$Arguments#org/apache/tools/ant/BuildExceptionja  
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(Lorg/apache/tools/ant/Project;G(Lorg/apache/tools/ant/Project;)Lorg/apache/tools/ant/DirectoryScanner;log(Ljava/  
lang/String;I)V%org/apache/tools/ant/DirectoryScannergetIncludedFiles()[Ljava/lang/String;#(Ljava/io/File;Ljava/l  
ang/String;)Vjava/util/Listadd(Ljava/lang/Object;Z\*(Lorg/jvnet/licensetool/LicenseToolTask;)V!org/jvnet/licenset  
ool/LicenseToolprocess0(Lorg/jvnet/licensetool/LicenseTool\$Arguments;)V! !"#"\$%&'(%&)\*+,-."/0  
123Y\*\*\*\*Y\*423 459567893>\*+4  
>?567/0;3>\*4  
BC567!"<;3>\*4  
FG567#"=;3>\*4  
JK567.">93E  
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NO5  
67  
\*0?@3>\*+4  
RS567,-A@3F\*+  
4  
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W567(-BC3L\*+\*\*\*4  
]^567D0E23V\*\*\*L+M,>6\*,2:Y\*:\*WY\*M,4& bce'f6gBeHiQU5R6F0'G-3HI0JK-LKV67CMIQNRSTUVQOyP  
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ES9[Lorg/jvnet/licensetool/argparser/ArgParser$PrimaryColor;values;()Lorg/jvnet/licensetool/argparser/ArgParser
$PrimaryColor;CodeLineNumberTablevalueOf(L(Ljava/lang/String;))Lorg/jvnet/licensetool/argparser/ArgParser$Pri
maryColor;LocalVariableTablenameL(Ljava/lang/String;)<init>(L(Ljava/lang/String;I)Vthis
Signature()V<clinit>J(Ljava/lang/Enum<Lorg/jvnet/licensetool/argparser/ArgParser$PrimaryColor;>;
SourceFileArgParser.java5676org/jvnet/licensetool/argparser/ArgParser$PrimaryColor8 !
!java/lang/Enumclone(L(Ljava/lang/Object;);org/jvnet/licensetool/argparser/ArgParser5(L(Ljava/lang/Class;L(Ljava/lang/
String;)L(Ljava/lang/Enum;@0@@@@"
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<?xml version="1.0" encoding="UTF-8"?>
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```

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-->

```
<project name="Jersey-Licence-Maintenance" default="jar" basedir=".">

<taskdef name="licensetool" classname="org.jvnet.licensetool.LicenseToolTask">
 <classpath>
 <pathelement location="lib/license-tool-1.0-SNAPSHOT.jar"/>
 </classpath>
</taskdef>

<target name="check-copyright" description="Checks all source files has proper licence boilerplate">
 <licensetool srcDir=".."
 validate="true"
 skipdirs=".svn"
 copyright="copyright.txt"
 includes="jersey/src/**/*.*.java jersey/test/**/*.*.java jersey/build.xml jersey/examples/**/*.*.java
jersey/maven/*.*.xml **/*.*pom*.*.xml">
 </licensetool>
</target>

<target name="fix-copyright" description="Fixes licence boilerplate at all source files">
 <licensetool srcDir=".."
 validate="false"
 skipdirs=".svn"
 copyright="copyright.txt"
 includes="jersey/src/**/*.*.java jersey/test/**/*.*.java jersey/build.xml jersey/examples/**/*.*.java
jersey/maven/*.*.xml **/*.*pom*.*.xml">
 </licensetool>
</target>

</project>
<html>
 <head>
 <title>jersey: Jersey Dual License Header and License Notice GPL v2 and CDDL 1.1</title>
 </head>

 <body>

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```

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patternStrpatternLjava/util/regex/Pattern;matcherLjava/util/regex/Matcher;indexILocalVariableTypeTable\$Ljava/uti  
l/List<Ljava/lang/String;>;

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g/String;flinelineLengthcovertLineBreak8(Ljava/lang/String;Ljava/lang/String;)Ljava/lang/String;inputStrline\_sepa  
ratorareCommentsEqual'(Ljava/lang/String;Ljava/lang/String;)ZiexpgotexpLinesgotLines

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mpile.(Ljava/lang/String;D)Ljava/util/regex/Pattern;3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;java/util/r  
egex/Matcherfind()Zgroup(Ljava/lang/String;java/util/Listadd(Ljava/lang/Object;)Zend()I

substring(I)Ljava/lang/String;get(I)Ljava/lang/Object;lengthcharAt(I)Cappend-

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parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;  
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SourceFileFileParser.java%org/jvnet/licensetool/file/FileParserjava/lang/Objectjava/io/IOException!/\*+

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ExceptionsmparseBlocks:(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;linei\$Ljava/util/Iterator;fileAsLinesL  
esLjava/util/List;countIfw  
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java/util/List<Lorg/jvnet/licensetool/file/Block;>;  
Signature^(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;  
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terator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;  
startsWith(Ljava/lang/String;)Z%org/jvnet/licensetool/LineCommentFile6(Ljava/lang/String;Ljava/lang/String;Ljav  
a/util/Set;)Vadd(Ljava/lang/Object;)Zappend-  
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Built-By: hudson  
Build-Jdk: 1.5.0\_06  
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```

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 \*/

```
package com.sun.jersey.impl.json;
```

```
import
 java.util.LinkedList;
import java.util.List;
import javax.xml.bind.annotation.XmlRootElement;
```

```
@XmlRootElement
public class Permission {
 public Integer id;
 public List<Permission> children; // optional, holds the children permission of this one

 public static Permission getRootPermission() {
```

```

Permission result = new Permission();
result.id = 7;
result.children = new LinkedList<Permission>();
result.children.add(getChildPermission());
return result;
}

public static Permission getChildPermission() {
 Permission result = new Permission();
 result.id = 8;
 result.children = new LinkedList<Permission>();
 result.children.add(get2ndLevelChildPermission());
 return result;
}

public static Permission get2ndLevelChildPermission() {
 Permission result = new Permission();
 result.id = 9;
 return result;
}
}
}
15 &
'(*
+
,
- .
/OREADOpenModeInnerClasses1Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;WRITES$VALUES2[Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;values4()[Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;CodeLine
NumberTablevalueOfE(Ljava/lang/String;)Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;LocalVariableTable
nameLjava/lang/String;<init>(Ljava/lang/String;I)Vthis
Signature()V<clinit>CLjava/lang/Enum<Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;>;
SourceFileFileWrapper.java123/org/jvnet/licensesetool/file/FileWrapper$OpenMode4
java/lang/Enumclone()Ljava/lang/Object;&org/jvnet/licensesetool/file/FileWrapper5(Ljava/lang/Class;Ljava/lang/Stri
ng;)Ljava/lang/Enum;@ 1 @
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.project  
.sql  
.svg  
.war  
.zip  
.dat  
jaxb.index  
/MANIFEST.MF  
/META-INF/services/  
/README  
/etc/jersey-1-migrated-tests  
/etc/config/copyright-exclude  
/etc/config/copyright.txt  
/license.html  
/LICENSE.txt  
/third-party-license-readme.txt  
/bundles/glassfish/v4.0/core/src/main/resources/jersey-core\_proto.py  
/bundles/glassfish/v4.0/docs-and-examples/src/main/resources/jersey-docs-and-examples\_proto.py  
nb-configuration.xml  
/archetype-resources/  
client.cert  
keystore\_client  
keystore\_server  
server.cert  
truststore\_client  
truststore\_server  
/examples/reload/resources  
/core-server/etc  
bootstrap  
changes.txt  
META-INF/jersey-module-version  
src/test/resources/com/sun/jersey/impl/entity  
jaxrs-components  
archive/src/main/resources/Jersey-LICENSE.txt  
ri/jax-rs-ri-source-licensee/src/main/resources/TLDA\_SCSL\_Licensees\_License\_Notice.txt  
contribs/bill-burke-book  
jersey-server/src/main/java/jersey/repackaged/org/objectweb/asm



```

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Exceptions*parseBlocks:(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;
Signature^(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;
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.org/jvnet/licensetool/LineCommentFile$LineCommentFileParser%org/jvnet/licensetool/file/FileParserjava/io/IOE
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censetool/file/FileWrapper$FileState;LocalVariableTablenameLjava/lang/String;<init>(Ljava/lang/String;I)Vthis
Signature()V<clinit>DLjava/lang/Enum<Lorg/jvnet/licensetool/file/FileWrapper$FileState;>;
SourceFileFileWrapper.java5670org/jvnet/licensetool/file/FileWrapper$FileState8 !
!java/lang/Enumclone(Ljava/lang/Object;&org/jvnet/licensetool/file/FileWrapper5(Ljava/lang/Class;Ljava/lang/Stri
ng;)Ljava/lang/Enum;@ 1 @ @ @ "
@ 5* @ !1*+ @ "#$%$]AY Y
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SignatureoLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryBooleanFunction<Lorg/jvnet/licensetool/file/Pars
edFile;>;
SourceFileScanner.java$org/jvnet/licensetool/Scanner$ActionActionInnerClassesjava/lang/Object2org/jvnet/licenset

```

## 1.204 jersey-servlet 1.19

## 1.205 snappy-java 1.1.2.6

## 1.206 snappy-java 1.0.5

## 1.207 gson 2.2.4

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Found in path(s):

```
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonParser.java
*
/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/LongSerializationPolicy.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/Streams.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/JsonSyntaxException.java
```

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```
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jar/com/google/gson/internal/LinkedTreeMap.java
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\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/FieldNamingStrategy.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonDeserializationContext.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonNull.java  
\*  
/opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/SerializedName.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/Excluder.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonDeserializer.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonArray.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/Since.java  
\*  
/opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonObject.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/Expose.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonSerializationContext.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonElement.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonParseException.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/ObjectConstructor.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/InstanceCreator.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/FieldNamingPolicy.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/Gson.java

\*  
/opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/GsonBuilder.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonIOException.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/DefaultDateTypeAdapter.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/Primitives.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/ExclusionStrategy.java  
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\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/MalformedJsonException.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonWriter.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonToken.java  
\*  
/opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonReader.java  
\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonScope.java  
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\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/ConstructorConstructor.java

\*

/opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/LazilyParsedNumber.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/bind/DateTypeAdapter.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/bind/TimeTypeAdapter.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/UnsafeAllocator.java

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\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java

\*

/opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/TypeAdapter.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java

\* /opt/cola/permits/1001008282\_1651084430.84/0/gson-2-2-4-sources-

```
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
*
/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
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```
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/$Gson$Types.java
```

## 1.208 guice-assistedinject 3.0

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# 1.211 antlr 3.5.2

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\*/

/\*\* Template subgroup to add template rewrite output

\* If debugging, then you'll also get STDbg.stg loaded.

\*/

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

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

```
import org.antlr.stringtemplate.*;
```

```
import org.antlr.stringtemplate.language.*;
```

```
import java.util.HashMap;
```

```
>>
```

/\*\* Add this to each rule's return value struct \*/

```
@returnScope.ruleReturnMembers() ::= <<
```

```
public StringTemplate st;
```

```
public Object getTemplate() { return st; }
```

```
public String
```

```
 toString() { return st==null?null:st.toString(); }
```

```
>>
```

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

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

```
protected StringTemplateGroup templateLib =
```

```
 new StringTemplateGroup("<name>Templates", AngleBracketTemplateLexer.class);
```

```
public void setTemplateLib(StringTemplateGroup templateLib) {
```

```
 this.templateLib = templateLib;
```

```
}
```

```
public StringTemplateGroup getTemplateLib() {
```

```
 return templateLib;
```

```
}
```

/\*\* allows convenient multi-value initialization:

\* "new STAttrMap().put(...).put(...)"

\*/

```
@SuppressWarnings("serial")
```

```

public static class STAttrMap extends HashMap<String, Object> {
 public STAttrMap put(String attrName, Object value) {
 super.put(attrName, value);
 return this;
 }
}
>>

```

```

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, {<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.getTokenStream()).replace(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start),
retval.st);
<else>
((TokenRewriteStream)input).replace(
((Token)retval.start).getTokenIndex(),
input.LT(-1).getTokenIndex(),
retval.st);
<endif>
>>

```

```

rewriteTemplateAlt(alt) ::= <<
// <alt.description>
<if(alt.pred)>
if (<alt.pred>) {
 retval.st = <alt.alt>;
}

```

```

 }<\n>
<else>
{
 retval.st = <alt.alt>;
}
<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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/ST.stg  
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```
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```
*/
```

```
/*
```

- \* This code generating template and the associated C runtime was produced by:
- \* Jim Idle [jimi@hereisanat.idle.dotgoeshere.ws](mailto: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.

```

*/
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
]

```

```

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, jim@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 U_INT32
```

```
* and passing in the address of these.
```

```
*/
```

```
<literals:{it | 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 = &(amp;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 UTF16 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_8BIT) || defined(ANTLR3_INLINE_INPUT_UTF16)

ifdef ANTLR3_INLINE_INPUT_8BIT

/* 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 PERRORRECOVERY
#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
#ifdef SKIP_FOLLOW_SETS
#define FOLLOWPUSH(x)
#define FOLLOWPOP()
#else
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#endif
#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 PARSER ctx->pTreeParser
#define RECOGNIZER PARSER->rec
#define PSRSTATE RECOGNIZER->state
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)

```

```

#define INPUT _PARSER->ctnstream
#define ISTREAM INPUT->tstream->istream
#define STRSTREAM INPUT->tstream
#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 RECOVER() 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:{it |<if(it.isDynamicGlobalScope)>
<globalAttributeScopeFuncDecl(it)>
<globalAttributeScopeFuncs(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 license"]
// Copyright (c) 2005-2009 Jim Idle, Temporal Wave LLC
// http://www.temporal-wave.com
// http://www.linkedin.com/in/jimidle
//
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// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// 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.

#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: {it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(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: {it | <if(it.isDynamicGlobalScope)>
 <globalAttributeScopeDef(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(>>);<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(>>);};
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(>>);};
separator="\n">
<endif>

 const char * (*getGrammarFileName());
 void (*reset) (struct <name>_Ctx_struct * ctx);
 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:{it | #define <it.name> <it.type>}; separator="\n">
#ifdef EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif

#endif
 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(!ruleDescriptor.isSynPred)>
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
>>

//
// Produce the lexer output
//
lexer(grammar,
name,
tokens,
scopes,
rules,
numRules,
filterMode,
superClass,
labelType="pANTLR3_COMMON_TOKEN") ::= <<

```



```

<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()>);};
separator="\n">
static void <name>Free(p<name> ctx);

/* =====
* Lexer matching rules end.
* =====
*/

<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(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);
}

static void
<name>Reset (p<name> ctx)
{
 RECOGNIZER->reset(RECOGNIZER);
}

/** \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;
ctx->reset = <name>Reset;

<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.delegators:{g|
<g:delegateName()>}>);}; separator="\n">
<endif>
<if(grammar.delegators)>
// 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);

 teof->setStartIndex (teof, lexer->getCharIndex(lexer));
 teof->setStopIndex (teof, lexer->getCharIndex(lexer));
 teof->setLine (teof, lexer->getLine(lexer));
 return teof;
 }
 }

 state->token = NULL;
 state->error = ANTLR3_FALSE; /* Start out without an exception */

 {

```

```

ANTLR3_MARKER m;

m = lexer->input->istream->mark(lexer->input->istream);
state->backtracking = 1; /* No exceptions */
state->failed = ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together.
*/
lexer->mTokens(lexer->ctx);
state->backtracking = 0;

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if (state->failed == ANTLR3_TRUE)
{
lexer->input->istream->rewind(lexer->input->istream, m);
lexer->input->istream->consume(lexer->input->istream); <! advance one char and try again !>
}
else
{
lexer->emit(lexer); /* Assemble the token and emit it to the stream */
return state->token;
}
}
}
}
}
>>

actionGate() ::= "BACKTRACKING==0"

filteringActionGate() ::= "BACKTRACKING==1"

/** How to generate a parser */
genericParser(grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
inputStreamType,
superClass,
labelType,
members,
rewriteElementType, filterMode,

```

```

 ASTLabelType="pANTLR3_BASE_TREE"
) ::= <<

<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:{it |(pANTLR3_UINT8) <it>}; separator=",\n">
};
<endif>

<@members>

<@end>
<rules:{r |<ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>}>
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFuncMacro(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()>);};
separator="\n">
static void <name>Free(p<name> ctx);
static void <name>Reset (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><r.ruleDescriptor.parameterScope:parameterScope()>);}; 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->reset = <name>Reset;
ctx->getGrammarFileName = getGrammarFileName;

/* Install the scope pushing methods.
*/
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><\n>
<endif>}>

```

```

 <recognizer.scopes:{it
|<if(it.isDynamicGlobalScope)>
<globalAttributeScope(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;
}

static void
<name>Reset (p<name> ctx)
{
 RECOGNIZER->reset(RECOGNIZER);
}

```

```

/** 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: {it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(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:{it | <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|
 <return Type()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope.parameterScope()>)
 \{
 <if(ruleDescriptor.hasReturnValue)>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,
 filterMode,
 labelType={<ASTLabelType>},
 ASTLabelType="pANTLR3_BASE_TREE",
 superClass="TreeParser",
 members={<actions.treeparser.members>}
)
 ::= <<
<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(>
{
 <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()>
<@debugClean()>
return <ruleReturnValue()>;
}

```



```

<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (BACKTRACKING>0)
{
 FAILEDFLAG = <>true_value()>;
 <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()>)
{
 <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>;
}>
<endif>
<if(memoize)>
ANTLR3_MARKER <ruleDescriptor.name>_startIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
*/
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes: {
a |
<if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<if(a.initValue)><a.name> = <a.initValue>;<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = INDEX();<\n>
<endif>
<ruleDescriptor.useScopes: { it |<scopeTop(it)> = <scopePush(it)>; separator="\n">
<ruleDescriptor.ruleScope: { it |<scopeTop(it.name)> = <scopePush(it.name)>; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: { it |<labelType> <it.label.text>; separator="\n"
}
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: { it |pANTLR3_VECTOR list_<it.label.text>; separator="\n"
}
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(); separator="\n"

```

```

>
>>

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{it |list_<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelInitVal(); 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]
 :{it |<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |ANTLR3_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleListLabels,
 ruleDescriptor.ruleListLabels]
 :{it |pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
 ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleLabels]
 :{it |<it.label.text>
= NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleListLabels,
 ruleDescriptor.ruleListLabels]
 :{it |list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

```

```

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it |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:{it |<scopePop(it)>}; separator="\n">
<ruleDescriptor.ruleScope:{it |<scopePop(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()>)
{
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:{ a | <altSwitchCase(i,a)> }>
 }
 <@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:{ a | <altSwitchCase(i,a)> }>
 }
}
>>

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:{ a | <altSwitchCase(i,a)> }>
 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:{ a | <altSwitchCase(i,a)> }>
 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(altNum,alt) ::=
<<
case <altNum>:
 <@prealt()>
 <alt>
 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()>
}

```

```

}
>>

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

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

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

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<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>,);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,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,elementIndex) ::= <<
<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(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
MATCHANYT();
<checkRuleBacktrackFailure()>
>>
```

```
wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<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>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg() \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** 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()>

 <newNVEException()>
 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 (<if(predicates)><predicates> && <endif><(<labelExpr>))
{
 <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: {it |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 (<if(predicates)><predicates> && <endif><(<labelExpr>))
{
 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) ::= "<operands:{o|(<o>)}; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(pred,{ })>)"

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 |<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(r) ::= "<r.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(d) ::= <<
<if(d.label)><d.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) ::= <<
>>

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(scope) ::= <<
<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
|<it.type> <it.name>;}; separator="\n">
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;<\n><\n>
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes: {it |<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:{it |ANTLR3_UINT64_LIT(<it>)}; separator=", "> };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)> };
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);<\n>
>>

codeFileExtension() ::= ".c"

true_value() ::= "ANTLR3_TRUE"
false_value() ::= "ANTLR3_FALSE"

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/C.stg
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2005-2006 Terence Parr
```

```
All rights reserved.
```

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```
*/
```

```
@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]:{it |var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it |var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{it |var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{it |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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>
```

```
/** ^(ID ...) track for rewrite */
```

```
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>
```

```
/** Match ^(label+=TOKEN ...) track for rewrite */
```

```
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<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(label,
 {<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(label, {<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;

```



```

<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree
= root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

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

```
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
```

```
root_<treeLevel>));<\n>
```

```
>>
```

```
rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
```

```
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,terminalOptions,args)>);<\n>
```

```
>>
```

```
rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
```

```
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(token,terminalOptions,args)>,
```

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

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(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/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/ActionScript/AST.stg  
No license file was found, but licenses were detected in source scan.

```
/*
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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 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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/messages/formats/gnu.stg

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\*/

```
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, filterMode, labelType="Token",
 superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass>
<<@end><endif> {
 <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n">
 <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(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,
 labelType, members, rewriteElementType,
 filterMode, ASTLabelType="Object") ::= <<
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:{it |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:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(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.delegator.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()>):<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:{it | <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(grammar, name, scopes, tokens, tokenNames,
rules, numRules,
 bitsets, "TokenStream", superClass,
 labelType, members, "Token",
 false, ASTLabelType)>
>>

/** 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, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
 superClass="TreeParser", members={<actions.treeparser.members>}) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, "TreeNodeStream", superClass,
 labelType, members, "Node",
 filterMode, ASTLabelType)>
>>

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

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

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

```

```

 :{it |var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

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

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:{a | <altSwitchCase(i, a)>}>
 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:{a | <altSwitchCase(i, a)>}>
 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(altNum, alt) ::= <<
case <altNum>
:
 <@prealt(>
 <alt>
 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(e) ::= <<
<@prematch(>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<

```

```

<if(label)><label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><element
Index>)<if(label)><endif>; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, 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>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,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(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
var <label>Start:int = charIndex;
matchString(<string>); <checkRuleBacktrackFailure()>
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
matchString(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

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

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>

```

```

<listLabel(label, label)>
>>

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

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, 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+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, 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;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<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);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

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

```

```

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType>
= CommonToken.createFromStream(input, EOF, TokenConstants.DEFAULT_CHANNEL,
<label>Start<elementIndex>, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

// used for left-recursive rules
recRuleDefArg() ::= "var <recRuleArg()>:int"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

```

```

/** 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(pred,description)>)) {
 <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:{it |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:IntStream):int {
 <if(LEXER)>
 var input:IntStream = _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.
 */
cyclicDFAState(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) ::= "<operands; separator=\\|\\>"
```

```
notPredicate(pred) ::= "!(<evalPredicate(pred,{ })>)"
```

```
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(d)
::= <<
<if(d.label)><d.label><else>g<d.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:{it |public <it.decl>;}; separator="\n">
 <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it |<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.toStringWithTokenRange(<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.toStringWithTokenRange(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 |<it>}separator=", ">]);<n>
>>

codeFileExtension() ::=
 ".as"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ActionScript/ActionScript.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.

\*/

```
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>
 <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
 }
public
TreeAdaptor getTreeAdaptor() {
 return adaptor;
}
>>
```

```
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);
```

```
>>
```

```
@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"
```

```
@ctorForPredefinedListener.finally() ::= <<
```

```
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
```

```
TreeAdaptor
```

```
adap = new CommonTreeAdaptor();
```

```
setTreeAdaptor(adap);
```

```
<endif>
```

```
>>
```

```
@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"
```

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

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Java/ASTDbg.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.

\*/

@rule.setErrorReturnValue() ::= <<

/\* ASTParser

rule.setErrorReturnValue \*/

retval.tree = (<ASTLabelType> \*)[treeAdaptor errorNode:input From:retval.start To:[input LT:-1] Exception:re];

<! System.out.println("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>

>>

// TOKEN AST STUFF

/\*\* ID and output=AST \*/

tokenRef(token, label, elementIndex, terminalOptions) ::= <<

/\* ASTParser tokenRef \*/

```

<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>;
[treeAdaptor addChild:<label>_tree toTree:root_0];
<if(backtracking)>}<endif>
>>

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

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0
= (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
>>

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

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

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
/* ASTParser tokenRefRuleRootAndListLabel */
<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,terminalOptions,elementIndex,postmatchCode) ::= <%
/* ASTParser matchSet */
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
 [treeAdaptor addChild:<createNodeFromToken(...)> toTree:root_0];}, ...)>
%>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions, 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,terminalOptions,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */
<if(label)>
<label>=(<labelType> *)[input LT:1]; /* matchSetRuleRoot */<\n>
<endif>
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...)> old:root_0];}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
[treeAdaptor addChild:[<label> getTree] 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) ::= <<
/* ASTParser ruleRefRuleRoot
*/
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_0];
>>

```

```

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

```

```

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

```

```

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

```

// WILDCARD AST

```

wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>
) { <endif>
 [treeAdaptor addChild:[treeAdaptor create:<label>] retain] toTree:root_0];
<if(backtracking)>}<endif>
>>

```

```

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

```

```

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser wildcardRuleRoot */
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) { <endif>
 <label>_tree = [[treeAdaptor create:<label>] retain]

```

```

 root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)><endif>
>>

createNodeFromToken(label,terminalOptions) ::= <<
/* ASTParser createNodeFromToken */
<if(terminalOptions.node)>
[<terminalOptions.node> new<terminalOptions.node>:<label>] <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType> *)[treeAdaptor create:<label>] retain]
<endif>
>>

// straight from java cleanup ///
ruleCleanUp() ::= <<
/* ASTParser ruleCleanUp */
<super.ruleCleanUp()>
<if(backtracking)>if
(<actions.(actionScope).synpredgate>) {<n><endif>
 retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
 [treeAdaptor setTokenBoundaries:retval.tree From:retval.start To:retval.stopToken];
<if(backtracking)><endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ObjC/ASTParser.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, ...

\*/

/\*\* 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,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
>>

/** ID auto construct */

```

```

tokenRef(token,label,elementIndex,terminalOptions) ::= <<
 _last = <ASTLabelType>(input.LT(1));
 <super.tokenRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = new <terminalOptions.node>(<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,terminalOptions) ::= <<
 <tokenRef(...)>
 <listLabel(elem=label,...)>
 >>

/**
 ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
 _last = <ASTLabelType>(input.LT(1));
 <super.tokenRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = new <terminalOptions.node>(<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,terminalOptions) ::= <<
 <tokenRefRuleRoot(...)>
 <listLabel(elem=label,...)>
 >>

/** Match . wildcard and auto dup the node/subtree */

```

```

wildcard(token,label,elementIndex,terminalOptions) ::= <<
 _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,terminalOptions,elementIndex,postmatchCode) ::= <<
 _last = <ASTLabelType>(input.LT(1));
 <super.matchSet(postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = new <terminalOptions.node>(<label>);
 <else>
 <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
 <endif><\n>
 adaptor.addChild(root_<treeLevel>, <label>_tree);
 <if(backtracking)>}\}<endif>
 <endif>
 }, ...
)>
 >>

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

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

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
 <super.matchSet(postmatchCode={
 <if(!rewriteMode)>

```

```

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<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(label, {<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(label, {<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,terminalOptions,scope) ::= <<
 <if(terminalOptions.node)>
 new <terminalOptions.node>(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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
```

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```
/*
```

```
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```

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```
*/
```

```
/** Template subgroup to add template rewrite output
```

```
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

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

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

```
import org.stringtemplate.v4.*;
```

```
import java.util.HashMap;
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
/* ST returnScope.ruleReturnMembers -- empty */
```

```
>>
```

```

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.memvars()
::= <<
ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.properties() ::= <<
@property (retain) ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methodsDecl() ::= <<
- (ST *)getTemplate;
- (NSString *)toString;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.synthesize() ::= <<
@synthesize st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methods() ::= <<
- (ST *)getTemplate { return st; }
- (NSString *)toString { return st==nil?nil:[st render]; }
>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (void)setTemplateLib:(STGroup *)aTemplateLib
{
 self.templateLib = aTemplateLib;
}

- (STGroup *)getTemplateLib
{
 return templateLib;
}
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty
now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */

```

```

>>

@genericParserHeaderFile.properties() ::= <<
<@super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

- (STGroup *)getTemplateLib
{
 return templateLib;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
 templateLib = aTemplateLib;
}

>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (STGroup *) getTemplateLib
{
 return templateLib;
}

```

```

- (void) setTemplateLib:(STGroup *) templateLib
{
 this.templateLib = templateLib;
}

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, { [<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 getTokenStream)]
 replaceFromIndex:[input getTreeAdaptor] getTokenStartIndex:retval.start]
 ToIndex:[input getTreeAdaptor] getTokenStopIndex:retval.start]
 Text:[retval.st render]];
<else>
 [((TokenRewriteStream)input)
 replaceFromIndex:[((Token)retval.start)
 getTokenIndex]
 ToIndex:[input LT:-1] getTokenIndex]
 Text:[retval.st render]];
<endif>
>>

rewriteTemplateAlt(alt) ::= <<
// <alt.description>
<if(alt.pred)>
if (<alt.pred>) {
 retval.st = <alt.alt>;
}<\n>
<else>
{

```

```

 retval.st = <alt.alt>;
 }<\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
nil;
>>

/** 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) ::= <%
<if(args)><args:{ a | []}><endif>
[templateLib getInstanceOf:@"<name>"]
<if(args)><args:{ a | add:@"<a.name>" value:<a.value>}]><endif>;
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
<if(args)><args:{ a | []}><endif>
[templateLib getInstanceOf:<expr>];
<if(args)><args:{ a
| add:@"<a.name>" value:<a.value>}]><endif>;
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
<if(args)><args:{ a | []}><endif>
[ST newST:templateLib template:"<template>"]
<if(args)><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>" value:<expr>];
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<

```

[ST newST:templateLib template:<stringExpr>];

>>

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ST4ObjC.stg

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\*/

/\*\* ANTLR's code generator.

\*

\* Generate recognizers derived from grammars. Language independence

\* achieved through the use of STGroup 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.  
 \*/

Found in path(s):

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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, ...

\*/

/\*\* Add a variable to track last element matched \*/

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<if(!ruleDescriptor.isSynPred)>

<ASTLabelType> \_first\_0 = default(<ASTLabelType>);

<ASTLabelType> \_last = default(<ASTLabelType>);

<endif>

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(!ruleDescriptor.isSynPred)>

<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>

<endif>

>>

/\*\* match ^(root children) in tree parser; override here to

\* add tree construction actions.

\*/

tree(root, actionsAfterRoot, children, nullableChildList,

    enclosingTreeLevel, treeLevel) ::= <<

<if(!ruleDescriptor.isSynPred)>

\_last = (<ASTLabelType>)input.LT(1);

{



```

<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
<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>;
}
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

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

```

```

<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text>;
 format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text>; format="string"><endif>);
<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>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)>
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if

```

```

(<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
>>

/** Match . wildcard
and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.wildcard(...)>
<endif>
>>

```

```
// SET AST
```

```
matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
 <super.matchSet(postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = new
 <terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text;
 format="string"><endif>);
 <else>
 <label>_tree =
 (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
 <endif><\n>
 adaptor.AddChild(root_<treeLevel>, <label>_tree);
 <if(backtracking)>\}<endif>
 <endif>
 }, ...
)>
 <else>
 <super.matchSet(...)>
 <endif>
>>
```

```
matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<if(!ruleDescriptor.isSynPred)>
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
<else>
<super.matchRuleBlockSet(...)>
<endif>
>>
```

```
matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
<else>
<super.matchSetBang(...)>
<endif>
>>
```

```
matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(!ruleDescriptor.isSynPred)>
```

```

<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if
 (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

```

```
// RULE REF AST
```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.ruleRef(...)>
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>

```

```

<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope)
::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

/** 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) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)>
<endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>

```

```

_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
<else>
<super.ruleRefRuleRootTrack(...)>
<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope)
 ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
>>

/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode()
<else>
stream_<token>.NextNode()
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg

```

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```

/*

```

```

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```

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\*/

```
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

```
@outputFile.imports() ::= <<
<@super.imports(>
import stringtemplate3
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnInit() ::= <<
self.st = None
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
def getTemplate(self):
 return self.st
```

```
def toString(self):
 if self.st is not None:
 return
```



```

self.st.toString()
 return None
__str__ = toString

>>

@genericParser.init() ::= <<
<@super.init(>
self.templateLib = stringtemplate3.StringTemplateGroup(
 '<name>Templates', lexer='angle-bracket'
)
)

>>

@genericParser.members() ::= <<
<@super.members(>
def setTemplateLib(self, templateLib):
 self.templateLib = templateLib

def getTemplateLib(self):
 return self.templateLib

>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
TEMPLATE REWRITE
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <first(alts):rewriteTemplateAltFirst(>
 <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
 <if(rewriteMode)><replaceTextInLine(><endif>

<else>
<first(alts):rewriteTemplateAltFirst(>
<rest(alts):{it | el<rewriteTemplateAlt(it)>}>
<if(rewriteMode)><replaceTextInLine(><endif>
<endif>
>>

replaceTextInLine()
::= <<
<if(TREE_PARSER)>

```

```

self.input.getTokenStream().replace(
 self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
 self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
 retval.st
)
<else>
self.input.replace(
 retval.start.getTokenIndex(),
 self.input.LT(-1).getTokenIndex(),
 retval.st
)
<endif>
>>

```

```

rewriteTemplateAltFirst(alt) ::= <<
<if(alt.pred)>
if <alt.pred>:
 # <alt.description>
 retval.st = <alt.alt>
<\n>
<else>
<alt.description>
retval.st = <alt.alt>
<\n>
<endif>
>>

```

```

rewriteTemplateAlt(alt) ::= <<
<if(alt.pred)>if <alt.pred>:
 # <alt.description>
 retval.st = <alt.alt>
<\n>
<else>se:
 # <alt.description>
 retval.st = <alt.alt>
<\n>
<endif>
>>

```

```

rewriteEmptyTemplate(alts) ::= <<
None
>>

```

```

/** 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) ::= <%
self.templateLib.getInstanceOf("<name>"<if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator=","
">"<endif>})
%>

```

```

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
self.templateLib.getInstanceOf(<expr><if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator=","
">"<endif>})
%>

```

```

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args)>, attributes={<args:{ a |
"<a.name>": <a.value>}; separator="," ">"<endif>})
%>

```

```

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

```

```

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>)["<attrName>"]
= <expr>
>>

```

```

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ST.stg
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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>"
STRING_TEMPLATE_ERROR(arg,exception,stackTrace) ::=
"template error: <arg>"
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"

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"

ILLEGAL\_OPTION\_VALUE(arg, arg2) ::= "value '<arg2>' invalid for option <arg>"



ALL\_OPS\_NEED\_SAME\_ASSOC(arg) ::= "all operators of alt <alt> of left-recursive rule must have same associativity"

RANGE\_OP\_ILLEGAL(arg) ::= "the .. range operator isn't allowed in parser rules"

// GRAMMAR WARNINGS

GRAMMAR\_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::=

<<

<if(paths)>

Decision can match input such as "<input>" using multiple alternatives:

<paths:{ it | 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 <↳ 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:{ it | 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.

>>

/\* 110n for message levels \*/

warning() ::= "warning"

error() ::= "error"

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/templates/messages/languages/en.stg

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

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\*/

group Delphi;

```
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;

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.delegates:{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.delegators: {g|<g.recognizerName>}; separator="\n">
 <actions.(actionScope).usesImplementation>
 SysUtils,
 StrUtils,
 Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType><grammar.delegators:{g|
const A<g:delegateName(): IBaseRecognizer{<g.recognizerName>}>>);
begin
 Create(AInput, TRecognizerSharedState.Create<grammar.delegators:{g|, A<g:delegateName()>>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>;
const AState: IRecognizerSharedState<grammar.delegators:{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.delegators):{p|, <p:delegateName()>}>, Self);}; separator="\n">
 <grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>};
separator="\n">
 <last(grammar.delegators):{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 | F DFA<dfa.decisionNumber> := T DFA<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;

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
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): <returnType()>;<\n>
<else>
procedure
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
);<\n>
<endif>
<endif>
begin
<if(ruleDescriptor.hasReturnValue)>Result :=<endif>
T<ruleDescriptor.grammar.recognizerName>(<ruleDescriptor.grammar:delegateName()>.Implementor).<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes: { a|<a.name> }; separator="," ">);
end;

>>

parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(grammar.grammarIsRoot)>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;<\n>
<! index from 1..n !>
<endif>
<endif>
<grammar.delegators: { g|<g.delegateName()> := Pointer(A<g.delegateName()>); separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="Token", 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>"
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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<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>,); <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,elementIndex) ::= <<
<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+=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)>
 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) ::= "<operands:{o|<o>}; separator=\" or \">"

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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Delphi/Delphi.stg
No license file was found, but licenses were detected in source scan.

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*/

```

```

@outputFile.imports() ::= <<
<@super.imports(>

```

```

<if(!TREE_PARSER)>
<! tree parser would already have imported !>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
>>

```

```

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

```

```

parserCtorBody()
::= <%
<super.parserCtorBody(><\n>
TreeAdaptor =
<if(actions.(actionScope).treeAdaptorInitializer)>
<actions.(actionScope).treeAdaptorInitializer>
<else>
new <actions.(actionScope).treeAdaptorType; null="CommonTreeAdaptor">()
<end>
;
%>

```

```

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<

```

```

private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
 get
 {
 return adaptor;
 }

 set
 {
 this.adaptor = value;
 <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
 }
}
>>

treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

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

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

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

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

/** Match ^(label+=TOKEN ...) track
for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** 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(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

/** ^(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(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

//
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) ::= <<
<\n>{
// 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>) {
<endif>
<prevRuleRootRef().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt()>

```

```

separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER&&rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef().Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last), retval.Tree);
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER||!rewriteMode)>
<prevRuleRootRef().Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
:{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
:{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
:{it|RewriteRuleSubtreeStream
stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
:{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
separator="\n"
>
<referencedRuleLabels
:{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null)};
separator="\n"
>
<referencedRuleListLabels
:{it|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>
 }
 <else>
 {
 <a.alt>
 }
 <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()>
DebugLocation(<e.line>, <e.pos>);<\n>
<e.el>
%>

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

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

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,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,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>,
 <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
%>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp2/AST.stg
```

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

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2006, 2007 Kay Roepke 2010 Alan Condit
```

```
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```

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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>
```

```

* Modified by Alan Condit <acondit(at)ipns.com>
*
* This file is part of ANTLR and subject to the same license as ANTLR itself.
*/

```

```

objcTypeInitMap ::= [
 "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
 "BOOL" : "NO", // Booleans start out being Antlr ObjC for false
 "byte" : "0", // Bytes start out being 0
 "short" : "0", // Shorts start out being 0
 "char" : "0", // Chars start out being 0
 "id" : "nil", // ids start out being nil
 default : "nil" // anything other than an atomic type
]

```

```

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.

```

```

booleanLiteral ::= [
 "True":"true",
 "False":"false",
 "true":"YES",
 "false":"NO",
 default:"NO"
]

```

```

className() ::= "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<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>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.
*
* ObjC language generator and runtime by Alan Condit, acondit|hereisanat|ipns|dotgoeshere|com.
*
*
>>

/** 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("OBJC source")>
*/
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<! <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.
*/
#import "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>.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:{it | static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endif>

/* ===== */
/* ===== */
* Start of recognizer
*/
<recognizer>
>>
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
) ::=

<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
<actions.(actionScope).preincludes>
/* =====
* Standard antlr OBJC runtime definitions
*/
#import \<Cocoa/Cocoa.h>
#import \<ANTLR/ANTLR.h>
/* End of standard antlr3 runtime definitions
* =====
*/
<actions.(actionScope).includes>
<@end>

<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<parserHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>
<endif>
<docComment>
>>

lexerHeaderFile(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="Lexer"
) ::=
<<

<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>

/* Start cyclicDFAInterface */
<cyclicDFAs:cyclicDFAInterface(>

#pragma mark Rule return scopes Interface start
<rules:{rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>>}}>
#pragma mark Rule return scopes Interface end
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#ifdef EOF
#undef EOF
#endif
#endif

```

```

<tokens:{it | #define <it.name> <it.type>}; separator="\n">
#endif
/* interface lexer class */
@interface <className()> <@superClassName>: <superClass><@end> { // line 283
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{ pred | SEL <pred>Selector;}; separator="\n">
/* ObjC
start of actions.lexer.memVars */
<actions.lexer.memVars>
/* ObjC end of actions.lexer.memVars */
}
+ (void) initialize;
+ (<className()> *)new<className()>WithCharStream:(id<CharStream>)anInput;
/* ObjC start actions.lexer.methodsDecl */
<actions.lexer.methodsDecl>
/* ObjC end actions.lexer.methodsDecl */
<rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>)
<if(!rule.ruleDescriptor.isSynPred)>m<rule.ruleName><else><rule.ruleName>_fragment<endif>
<if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:parameterScope()><endif>; };
separator="\n"><\n>
@end /* end of <className()> interface */<\n>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScopeInterface(...)>"
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,
 filterMode,
 labelType="CommonToken",
 superClass="Lexer"
) ::= <<

```

```

<cyclicDFAs:cyclicDFA()>

/** As per Terence: No returns for lexer rules! */
<!
#pragma mark Rule return scopes start
<rules:{rule | <rule.ruleDescriptor:{ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor.returnScope)>>}>
}>
#pragma mark Rule return scopes end
!>
@implementation <grammar.recognizerName> // line 330

+ (void) initialize
{
 [BaseRecognizer setGrammarFileName:@"<fileName>"];
}

+ (NSString *) tokenNameForType:(NSInteger)aTokenType
{
 return [[self getTokenNames] objectAtIndex:aTokenType];
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>WithCharStream:(id<CharStream>)anInput
{
 return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}

- (id) initWithCharStream:(id<CharStream>)anInput
{
 self = [super initWithCharStream:anInput State:[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1]];
 if (self != nil) {
<if(memoize)>
 if (state.ruleMemo == nil) {
 state.ruleMemo = [[RuleStack newRuleStackWithSize:<numRules>+1] retain];
 }
 if ([state.ruleMemo count] == 0) {
 // initialize the memoization cache - the indices are 1-based in the runtime code!
 <! [state.ruleMemo addObject:[NSNull null]]; /* dummy entry to ensure 1-basedness. */ !>
 for (NSInteger i = 0; i < <numRules>; i++) {
 [state.ruleMemo addObject:[HashRule newHashRuleWithLen:17]];
 }
 }
 }
<endif>
 <synpreds:{pred | <lexerSynpred(name=pred)>};separator="\n">
 <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
 <actions.lexer.init>

```

```

 }
 return self;
}

- (void) dealloc
{
 <cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber>
release];}; separator="\n">
<actions.lexer.dealloc>
 [super dealloc];
}

/* ObjC Start of actions.lexer.methods */
<actions.lexer.methods>
/* ObjC end of actions.lexer.methods */
/* ObjC start methods() */
<@methods()>
/* ObjC end methods() */

<if(actions.lexer.reset)>
- (void) reset
{
 <actions.lexer.reset>
 [super reset];
}
<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>
/* Start of Rules */
<rules; separator="\n">

@end /* end of <grammar.recognizerName> implementation line 397 */
>>

/** 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() ::= <<
- (id<Token>) nextToken
{
 while (YES) {
 if ([input LA:1] ==

```

```

CharStreamEOF) {
 return [<labelType> eofToken];
}
state.token = nil;
state.channel = TokenChannelDefault;
state.tokenStartCharIndex = input.index;
state.tokenStartCharPositionInLine = input.charPositionInLine;
state.tokenStartLine = input.line;
state.text = nil;
@try {
 NSInteger m = [input mark];
 state.backtracking = 1; /* means we won't throw slow exception */
 state.failed = NO;
 [self 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 {
 [self emit];
 return state.token;
 }
}
@catch (RecognitionException
*re) {
 // shouldn't happen in backtracking mode, but...
 [self reportError:re];
 [self recover:re];
}
}
}

- (void)memoize:(id<IntStream>)anInput
 RuleIndex:(NSInteger)ruleIndex
 StartIndex:(NSInteger)ruleStartIndex
{
 if (state.backtracking > 1) [super memoize:anInput RuleIndex:ruleIndex StartIndex:ruleStartIndex];
}

- (BOOL)alreadyParsedRule:(id<IntStream>)anInput RuleIndex:(NSInteger)ruleIndex
{
 if (state.backtracking > 1) return [super alreadyParsedRule:anInput RuleIndex:ruleIndex];
 return NO;
}
>>

```

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

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

```
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,
```

```
 literals,
```

```
 superClass="Parser"
```

```
) ::= <<
```

```
/* parserHeaderFile */
```

```
<genericParserHeaderFile(inputStreamType="id\<TokenStream>",...)>
```

```
>>
```

```
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,
 literals,
 superClass="TreeParser"
) ::= <<
/* treeParserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TreeNodeStream>",...)>
>>

```

```

genericParserHeaderFile(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,
 literals,
 inputStreamType
) ::=
<<

```

```

<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>

#ifndef ANTLR3TokenTypeAlreadyDefined
#define ANTLR3TokenTypeAlreadyDefined
typedef enum {
 ANTLR_EOF = -1,
 INVALID,
 EOR,
 DOWN,
 UP,
 MIN
} ANTLR3TokenType;
#endif

<cyclicDFAs:cyclicDFAInterface()>
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#ifdef EOF
#undef EOF
#endif
<tokens:{it | #define <it.name> <it.type>}; separator="\n">
#endif
#pragma mark Dynamic Global Scopes globalAttributeScopeInterface
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeInterface(scope=it)><endif>}>
#pragma mark Dynamic Rule Scopes ruleAttributeScopeInterface
<rules:{rule |
<rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeInterface(scope=ruleDescriptor.ruleScope)>>>}>
#pragma
mark Rule Return Scopes returnScopeInterface
<rules:{rule <rule.ruleDescriptor:{ ruleDescriptor |
<returnScopeInterface(scope=ruleDescriptor.returnScope)>>>}>

/* Interface grammar class */
@interface <className()> <@superClassName> : <superClass><@end> { /* line 572 */
#pragma mark Dynamic Rule Scopes ruleAttributeScopeDecl
<rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeDecl(scope=rule.ruleDescriptor.ruleScope)>>}>
#pragma mark Dynamic Global Rule Scopes globalAttributeScopeMemVar
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeMemVar(scope=it)><endif>}><\n>
/* ObjC start of actions.(actionScope).memVars */
<actions.(actionScope).memVars>

```



```

/* ObjC end of actions.(actionScope).memVars */
/* ObjC start of memVars */
<@memVars()>
/* ObjC end of memVars */

<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{ pred | SEL <pred>Selector;}; separator="\n">
}

/* ObjC start of actions.(actionScope).properties */
<actions.(actionScope).properties>
/* ObjC end of actions.(actionScope).properties */
/* ObjC start of properties */
<@properties()>
/* ObjC end of properties */

+ (void) initialize;
+ (<className()> *) new<className()>:<inputStreamType>aStream;
/* ObjC start of actions.(actionScope).methodsDecl */
<actions.(actionScope).methodsDecl>
/* ObjC end of actions.(actionScope).methodsDecl */

/* ObjC start of methodsDecl */
<@methodsDecl()>
/* ObjC end of methodsDecl */

<rules:{ rule |
-
(<rule.ruleDescriptor:{ ruleDescriptor|<returnType()>})<if(!rule.ruleDescriptor.isSynPred)><rule.ruleName><else
><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:
parameterScope()><endif>; }; separator="\n"><\n>

@end /* end of <className()> interface */<\n>
>>

parser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,

 numRules,
 bitsets,
 ASTLabelType="CommonTree",
 superClass="Parser",
 labelType="CommonToken",
 members={ <actions.parser.members>}

```

```

) ::= <<
<genericParser(inputStreamType="id<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,
 filterMode,
 labelType={<ASTLabelType>},
 ASTLabelType="CommonTree",
 superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
 members={<actions.treeparser.members>}
) ::= <<
<genericParser(inputStreamType="id<TreeNodeStream>", rewriteElementType="Node", ...)>
>>

/** How to generate a parser */
genericParser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,
 numRules,
 cyclicDFAs, // parser init -- initializes the DFAs
 bitsets,
 labelType,
 ASTLabelType,
 superClass,
 members,
 filterMode,
 rewriteElementType,
 inputStreamType
) ::= <<
<cyclicDFAs:cyclicDFA()>

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

```

```

#pragma mark Dynamic Global globalAttributeScopeImplementation
<scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScopeImplementation(scope=it)><endif>}>>

#pragma mark Dynamic Rule Scopes ruleAttributeScopeImplementation
<rules:{ rule |
<rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeImplementation(scope=ruleDescriptor.ruleScope)>}>}>>

#pragma mark Rule Return Scopes returnScopeImplementation
<rules:{ rule | <rule.ruleDescriptor:{ ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor.returnScope)>}>}>>

@implementation
<grammar.recognizerName> // line 637

/* ObjC start of ruleAttributeScope */
#pragma mark Dynamic Rule Scopes ruleAttributeScope
<rules:{ rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScope()>}>
/* ObjC end of ruleAttributeScope */
#pragma mark global Attribute Scopes globalAttributeScope
/* ObjC start globalAttributeScope */
<scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}>
/* ObjC end globalAttributeScope */
/* ObjC start actions.(actionScope).synthesize */
<actions.(actionScope).synthesize>
/* ObjC start synthesize() */
<@synthesize()>

+ (void) initialize
{
 #pragma mark Bitsets
 <bitsets:{ it | <bitsetInit(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}>
 [BaseRecognizer setTokenNames:[[AMutableArray arrayWithObjects:@"\<invalid>", @"\<EOR>",
 @"\<DOWN>", @"\<UP>", <tokenNames:{ it | @<it>}; separator=", ", wrap="\n ">, nil] retain]];
 [BaseRecognizer setGrammarFileName:@"<fileName>"];
 <synpreds:{ pred | <synpred(pred)>}>
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>:(<inputStreamType>)aStream
{
<if(PARSER)>
 return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
<else><#! TREE_PARSER !>
 return [[<grammar.recognizerName> alloc] initWithStream:aStream];
<endif>
}

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream

```

```

{
 self = [super initWithTokenStream:aStream State:[[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];
 if (self != nil) {
<else><! TREE_PARSER !>
- (id) initWithStream:(<inputStreamType>)aStream
{
 self = [super initWithStream:aStream State:[[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];
 if (self != nil) {
<endif>
 <! <parserCtorBody()> !>
 <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];};
separator="\n">
 <scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScopeInit(scope=it)><endif> }>
 <rules:{ rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit()> }>
 /* start of actions-actionScope-init */
 <actions.(actionScope).init>
 /* start of init */
 <@init()>
 }
 return self;
}

- (void) dealloc
{
 <cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
 <scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif> }>
 <actions.(actionScope).dealloc>
 <@dealloc()>
 [super dealloc];
}

/* ObjC start actions.(actionScope).methods */
<actions.(actionScope).methods>
/* ObjC end actions.(actionScope).methods */
/* ObjC start methods() */
<@methods()>
/* ObjC end methods() */
/* ObjC start rules */
<rules; separator="\n">
/* ObjC end rules */

@end /* end of <grammar.recognizerName> implementation line
692 */<\n>
>>

```

```

parserCtorBody() ::= <<
<if(memoize)> /* parserCtorBody */
<if(grammar.grammarIsRoot)>
state.ruleMemo = [[RuleStack newRuleStack:<numRules>+1] retain];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;} separator="\n">
>>

```

```

/** 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>_fragment
- (void) <ruleName>_fragment
{
 <ruleLabelDefs()>
 <if(trace)>
 [self traceIn:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];

 @try {
 <block>
 }
 @finally {
 [self traceOut:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
 }
 <else>
 <block>
 <endif>
} // $ANTLR end <ruleName>_fragment
>>

```

```

synpred(name) ::= <<
SEL <name>Selector = @selector(<name>_fragment);
<! // $ANTLR start <name>
- (BOOL) <name>
{
 state.backtracking++;
 <@start()>
 NSInteger start = [input mark];
 @try {
 [self <name>_fragment]; // can never throw exception

```

```

 }
 @catch (RecognitionException *re) {
 NSLog(@"impossible: %@\n", re.name);
 }
 BOOL success = (state.failed == NO);
 [input rewind:start];
 <@stop()>
 state.backtracking--;
 state.failed=NO;
 return success;
} // $ANTLR end <name> <\n> !>
>>

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

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<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 = YES; return <ruleReturnValue()>; }<\n><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()>
{
 <if(trace)>[self traceIn:\@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
 <if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1],

```

```

(state.failed==YES)?@"YES":@"NO", state.backtracking);<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 <ruleDescriptor.actions.init>
 <@preamble()>
 @try {
 <ruleMemoization(name=ruleName)>
 <ruleLabelDefs()>
 <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) {
 [self reportError:re];
 [self recover:input Exception:re];
 <@setErrorReturnValue()>
 }<\n>
 <endif><endif><endif>
 @finally {
 <if(trace)>[self traceOut:@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 }
 <@postamble()>
 return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
 <finalBlock>
}
>>

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

```

```

ruleDeclarations() ::= <<
/* ruleDeclarations */
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = [<ruleDescriptor:returnStructName()> new<ruleDescriptor:returnStructName()>];
[retval setStart:[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)>
NSInteger <ruleDescriptor.name>_startIndex = input.index;
<endif>
>>

```

```

ruleScopeSetUp() ::= <<
/* ruleScopeSetUp */
<ruleDescriptor.useScopes:{it | [<it>_stack push:[<it>_Scope new<it>_Scope]];}>
<ruleDescriptor.ruleScope:{it | [<it.name>_stack push:[<it.name>_Scope new<it.name>_Scope]];}>
>>

```

```

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

```

```

ruleLabelDefs() ::=
<%
/* ruleLabelDefs entry */<n">
<[ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it |<labelType> *<it.label.text> = nil;}; separator="\n"><"\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | AMutableArray *list_<it.label.text> = nil;}; separator="\n"><"\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n"><"\n">
<ruleDescriptor.ruleListLabels:{||ParserRuleReturnScope *<it.label.text> = nil;}; separator="\n"><"\n">
%>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<labelType> *<it.label.text>=nil;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |NSInteger <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]:{it |AMutableArray *list_<it.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]:{it |[list_<it.label.text> release];}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[retval setStop:[input LT:-1]];<\n>
<endif><endif>
>>
```

```
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) [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) ::= <<
// $ANTLR start "<ruleName>"
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
{
 //<if(trace)>[self traceIn:\@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
<if(trace)>NSLog(@"enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
 [input LA:1],
 self.line,
 self.charPositionInLine,
 (state.failed==YES) ? @"YES" : @"NO",
 state.backtracking);
```

```

<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
@try {
<if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block><\n>
<else>
 NSInteger _type = <ruleName>;
 NSInteger _channel = TokenChannelDefault;
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanUp()>
 state.type = _type;
 state.channel = _channel;
 <(ruleDescriptor.actions.after):execAction()>
<endif>
}
@finally {
 //<if(trace)>[self traceOut:[NSString stringWithFormat:@"<ruleName> %d\n",
<ruleDescriptor.index>]];<endif>
 <if(trace)>NSLog(@"exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
 [input LA:1], self.line, self.charPositionInLine,
 (state.failed==YES) ? @"YES" : @"NO", state.backtracking);<endif>
 <ruleScopeCleanUp()>
 <memoize()>
}
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
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch
 (alt<decisionNumber>) {
 <alts:{ a | <altSwitchCase(i, a)>}>
 }
<@postbranch()>
>>

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

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 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // positiveClosureBlock
NSInteger cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do {
 NSInteger alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
 <alts:{a | <altSwitchCase(i, a)>}>
 default :
 if (cnt<decisionNumber> >= 1)
 goto loop<decisionNumber>;
 <ruleBacktrackFailure()>
 EarlyExitException *eee =
 [EarlyExitException newException: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 {
 NSInteger alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
 <alts:{a | <altSwitchCase(i, a)>}>
 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(altNum, alt) ::= <<
case <altNum> : ;
 <@prealt()>
 <alt>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description> // alt
{
<@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(e) ::= << <@prematch()><\n><e.el><\n> >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<labelType>*<endif>[self match:input TokenType:<token>

```

```

Follow:FOLLOW_<token>_in_<ruleName><elementIndex>; <checkRuleBacktrackFailure()>
>>

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

listLabel(label,elem) ::= <<
if (list_<label>
== nil) list_<label> = [[AMutableArray arrayWithCapacity:5] retain];
[list_<label> addObject:<elem>];<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>NSInteger <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:]; <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> = [input LA:1];<\n>
<else>
<label> = (<labelType> *)[input LT:1]; /* matchSet */<\n>
<endif><endif>
if (<s>) {
 [input consume];
 <postmatchCode>
<if(!LEXER)>
 [state setIsErrorRecovery:NO];
<endif>
 <if(backtracking)>state.failed = NO;<\n><endif>
} else {
 <ruleBacktrackFailure()>
 MismatchedSetException *mse = [MismatchedSetException
newException:nil stream:input];
 <@mismatchedSetException()>
<if(LEXER)>

```

```

<if(label)>
 mse.c = <label>;
<endif>
 [self recover:mse];
 @throw mse;
<else>
 @throw mse;
 <! use following code to make it recover inline; remove throw mse;
 [self recoverFromMismatchedSet:input exception:mse follow: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,elementIndex="0") ::= <<
<if(label)>
NSInteger <label>Start = input.index;
[self matchString:<string>]; <checkRuleBacktrackFailure()>
NSInteger StartLine<elementIndex> = self.line;
NSInteger <label>StartCharPos<elementIndex> = self.charPositionInLine;
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault
Start:<label>Start Stop:input.index]
retain];
[self setLine:<label>StartLine<elementIndex>];
[self setCharPositionInLine:<label>StartCharPos<elementIndex>];
<else>
[self matchString:<string>]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label> = (<labelType> *)[input LT:1];<\n>
<endif>
[self matchAny:input]; <checkRuleBacktrackFailure()>
>>

```

```

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

```

```

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

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) ::= <<
/* ruleRef */
[self pushFollow:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
<if(label)><label> = <endif>[self <if(scope)><scope:delegateName()>.<endif><rule.name><if(args)>:<first(args)>
<rest(args):{ a | arg<i>:<rest(args)>}; separator=" "><endif>];<\n>
[self popFollow];
<checkRuleBacktrackFailure()><\n>
>>

/** 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)>
NSInteger <label>Start<elementIndex> = input.index;
[self m<rule.name><if(args)>:<args>; separator="
:><endif>]; <checkRuleBacktrackFailure()><\n>
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault

```



```

Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self <if(scope)><scope:delegateName()>.<endif>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)>
NSInteger <label>Start<elementIndex> = input.index;
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()><\n>
<labelType> <label> = [[<labelType> newToken:input Type:TokenTypeEOF Channel:TokenChannelDefault
Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

//
used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ([input LA:1] == DOWN) {
[self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
[self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>

```

```

 [self match:input TokenType:UP 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 [FailedPredicateException newException:@"<ruleName>" predicate:@"<description>" stream:input];
}
>>

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

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber>
stream:input];
 nvae.c = LA<decisionNumber>_<stateNumber>;
 <@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) ::= <<
NSInteger 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) ::= <<
NSInteger LA<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 {
 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) ::= <<
unichar charLA<decisionNumber> = [input LA:<k>];
switch (charLA<decisionNumber>) {
 <edges; separator="\n"><\n>
default:
;
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber>
stream:input];
 nvae.c = charLA<decisionNumber>;

```

```

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

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

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

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it | 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];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start DFA<dfa.decisionNumber>
@interface DFA<dfa.decisionNumber> : DFA {
}
+ (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer

```

```

*)theRecognizer;
- initWithRecognizer:(BaseRecognizer *)recognizer;
@end /* end of DFA<dfa.decisionNumber> interface */<\n>
#pragma mark Cyclic DFA interface end DFA<dfa.decisionNumber><\n>
>>

/** Used in lexer/parser implementation files */
/* 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) ::= <<
#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>

@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
 {<dfa.eot; wrap="\n ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
 {<dfa.eof; wrap="\n ", separator=",", null="-1">};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
 {<dfa.min; wrap="\n ", separator=",", null="-1">};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
 {<dfa.max; wrap="\n ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>]
 =
 {<dfa.accept; wrap="\n ", separator=",", null="-1">};
const static NSInteger 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 nil

<dfa.edgeTransitionClassMap.keys:{ table |
const static NSInteger dfa<dfa.decisionNumber>_T<i0>[] =
{
 <table; separator=", ", wrap="\n ", null="-1">
};
}; null="">

const static NSInteger *dfa<dfa.decisionNumber>_transition[] =
{
 <dfa.transitionEdgeTables:{ whichTable|dfa<dfa.decisionNumber>_T<whichTable>}; separator=", ", wrap="\n",
 null="nil">

```

```

};

+ (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)aRecognizer
{
 return [[[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer] retain];
}

- (id) initWithRecognizer:(BaseRecognizer *) theRecognizer
{
 self = [super initWithRecognizer:theRecognizer];
 if (self != nil) {
 decisionNumber = <dfa.decisionNumber>;
 eot = dfa<dfa.decisionNumber>_eot;
 eof = dfa<dfa.decisionNumber>_eof;
 min = dfa<dfa.decisionNumber>_min;
 max = dfa<dfa.decisionNumber>_max;
 accept = dfa<dfa.decisionNumber>_accept;
 special = dfa<dfa.decisionNumber>_special;
 transition = dfa<dfa.decisionNumber>_transition;
 }
 return self;
}

<if(dfa.specialStateSTs)>
/* start dfa.specialStateSTs */
- (NSInteger) specialStateTransition:(NSInteger)s Stream:(id<IntStream\>)anInput
{
 <if(LEXER)>
 id<IntStream\> input = anInput;<\n>
 <endif>
 <if(PARSER)>
 id<TokenStream\> input = (id<TokenStream\>)anInput;<\n>
 <endif>
 <if(TREE_PARSER)>
 id<TreeNodeStream\> input = (id<TreeNodeStream\>)anInput;<\n>
 <endif>
 switch (s) {
 <dfa.specialStateSTs:{ state |
 case <i0> : ;<! compressed special state numbers 0..n-1 !>
 <state> };
 separator="\n">
 }
 <if(backtracking)>
 if ([recognizer getBacktrackingLevel] > 0) { [recognizer setFailed:YES]; return -1; }<\n>
 <endif>
 NoViableAltException *nvae = [NoViableAltException newException:<dfa.decisionNumber> state:s
stream:recognizer.input];
 // nvae.c = s;

```

```

 /* [self error:nvae]; */ <! for debugger - do later !>
 @throw nvae;
} <\n>
/* end dfa.specialStateSTs */
<endif>

- (void) dealloc
{
 //free(transition);
 [super dealloc];
}

- (NSString *) description
{
 return @"<dfa.description>";
}

<@errorMethod()>

@end /* end DFA<dfa.decisionNumber> implementation */ <\n>
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>
<\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) ::= <<
/* cyclicDFAState */
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1]; <\n>
<if(semPredState)>
 <! get next lookahead symbol to test edges, then rewind !>
 NSInteger 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) ::= <<

```

```

/* cyclicDFAEdge */
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> /* eotDFAEdge */
>>

// 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(pred, {})>)"

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

/*
 * evalSynPredicate(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
 * DFA
 */
/* evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>Selector stream:input]" */
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>_fragment)]"
/* evalSynPredicate(pred,description) ::= "[recognizer <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

memVars(scope) ::= <% <scope.attributes:{a|<a.type> <a.name>;<\n>}; separator="\n"> %>

properties(scope) ::= <%
<scope.attributes:{a|@property (assign, getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;<\n>};
separator="\n">
%>

methodsDecl(scope) ::= <%
<scope.attributes:{a|- (<a.type>)get<a.name>;<\n>- (void)set<a.name>:(<a.type>)aVal;<\n>}; separator="\n">
%>

synthesize(scope) ::= <% <scope.attributes:{a|@synthesize <a.name>;}; separator="\n"> %>

methods(scope) ::= <%
<scope.attributes:{a|
- (<a.type>)get<a.name> { return(<a.name>); }\<\n>
- (void)set<a.name>:(<a.type>)aVal
{ <a.name> = aVal; }\<\n>}; separator="\n">
%>

globalAttributeScopeInterface(scope) ::= <%
/* globalAttributeScopeInterface */<\n>
@interface <scope.name>_Scope : SymbolsScope {<\n>
<if(scope.attributes)>
<memVars(scope)>
<endif>
}<\n>
<if(scope.attributes)>
/* start of globalAttributeScopeInterface properties */<\n>
<properties(scope)>
/* end globalAttributeScopeInterface properties */<\n>
<endif>

+ (<scope.name>_Scope *)new<scope.name>_Scope;<\n>
- (id) init;<\n>
<if(scope.attributes)>
/* start of globalAttributeScopeInterface methodsDecl */<\n>
<methodsDecl(scope)>
/* End of globalAttributeScopeInterface methodsDecl */<\n>
<endif>
@end /* end of <scope.name>_Scope interface */<\n>

```

```

%>

globalAttributeScopeMemVar(scope) ::= <%
/* globalAttributeScopeMemVar */<\n>
SymbolStack *<scope.name>_stack;<\n>
<scope.name>_Scope *<scope.name>_scope;<\n>
%>

globalAttributeScopeImplementation(scope) ::= <%
@implementation <scope.name>_Scope
/* globalAttributeScopeImplementation */<\n>
<if(scope.attributes)>
/* start of synthesize -- OBJC-Line 1750 */<\n>
<synthesize(scope)><\n>
<endif>
<\n>
+ (<scope.name>_Scope *)new<scope.name>_Scope<\n>
{<\n>
return [[<scope.name>_Scope alloc] init];<\n>
}<\n>
<\n>
- (id) init<\n>
{<\n>
self = [super init];<\n>
return self;<\n>
}<\n>
<\n>
<if(scope.attributes)>
/* start of iterate get and set functions */<\n>
<methods(scope)><\n>
/* End of iterate get and set functions */<\n>
<endif>
@end /* end of <scope.name>_Scope implementation */<\n><\n>
%>

globalAttributeScopeInit(scope) ::= <<
/* globalAttributeScopeInit */<\n>
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];<\n>
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];<\n>
>>

globalAttributeScopeDealloc(scope) ::= <% [<scope.name>_stack release];<\n> %>

globalAttributeScope(scope) ::= <%
<if(scope.name)>
static <scope.name>_stack;<\n>
<endif>
%>

```

```

ruleAttributeScopeMemVar(scope)
 ::= <%
/* ObjC ruleAttributeScopeMemVar */<\n>
<if(scope.attributes)>
<scope.name>_Scope *<scope.name>_scope; /* ObjC ruleAttributeScopeMemVar */<\n>
<endif>
%>

ruleAttributeScopeInterface(scope) ::= <%
<if(scope.attributes)>
/* start of ruleAttributeScopeInterface */<\n>
@interface <scope.name>_Scope : SymbolsScope {<\n>
 <memVars(scope)><\n>
}<\n>
<\n>
/* start property declarations */<\n>
<properties(scope)><\n>
/* start method declarations */<\n>
+ (<scope.name>_Scope *)new<scope.name>_Scope;<\n>
- (id) init;<\n>
<methodsDecl(scope)><\n>
@end /* end of ruleAttributeScopeInterface */<\n><\n>
<endif>
%>

ruleAttributeScopeImplementation(scope) ::= <%
<if(scope.attributes)>
@implementation <scope.name>_Scope /* start of ruleAttributeScopeImplementation */<\n>
<synthesize(scope)><\n>
<\n>
+ (<scope.name>_Scope *)new<scope.name>_Scope<\n>
{<\n>
 return [[<scope.name>_Scope alloc] init];<\n>
}<\n>
<\n>
- (id) init<\n>
{<\n>
 self = [super init];<\n>
 return self;<\n>
}<\n>
<\n>
/* start of <scope.name>_Scope get and set functions */<\n>
<methods(scope)><\n>
/* End of <scope.name>_Scope get and set functions */<\n>
@end /* end of ruleAttributeScopeImplementation */<\n><\n>
<endif>
%>

```

```

ruleAttributeScopeInit(scope) ::= <%
/* ruleAttributeScopeInit */<\n>
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];<\n>
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];<\n>
%>

ruleAttributeScopeDealloc(scope) ::= <% [<scope.name>_Scope release];<\n> %>

ruleAttributeScope(scope) ::= <%
<if(scope.attributes)>
/* ruleAttributeScope */<\n>
static SymbolStack *<scope.name>_stack;<\n>
static <scope.name>_Scope *<scope.name>_scope;
<endif>
%>

ruleAttributeScopeDecl(scope) ::= <%
/* ruleAttributeScopeDecl */<\n>
<if(scope.attributes)>
<scope.name>_Scope *<scope.name>_scope;<\n>
<endif>
%>

returnStructName(r) ::= "<className()>_<r.name>_return"

returnType()
::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> *
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
void
<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.singleValueType><else>
void<endif>
<endif>
%>

delegateName(d) ::= <% <if(d.label)><d.label><else>g<d.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) ::= <% <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.hasMultipleReturnValues)>
/* returnScopeInterface <ruleDescriptor:returnStructName()> */
@interface <ruleDescriptor:returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope { /* returnScopeInterface line 1838 */
<@memVars()> /* ObjC start of memVars() */<\n>
<if(scope.attributes)>
<memVars(scope)><\n>
<endif>
}
/* start property declarations */
<@properties()><\n>
<if(scope.attributes)>
<properties(scope)><\n>
<endif>
/* start of method declarations */<\n>
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>;
/* this is start of set and get methods */
<@methodsDecl()>
/* methodsDecl */<\n>
<if(scope.attributes)>
/* start of iterated get and set functions */<\n>
<methodsDecl(scope)><\n>
<endif>
@end /* end of returnScopeInterface interface */<\n>

```

```

<endif>
>>

returnScopeImplementation(scope) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
@implementation <ruleDescriptor:returnStructName()> /* returnScopeImplementation */<\n>
<@synthesize()> /* start of synthesize -- OBJC-Line 1837 */<\n>
<if(scope.attributes)>
 <synthesize(scope)><\n>
<endif>
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()><\n>
{<\n>
 return [[<ruleDescriptor:returnStructName()> alloc] init] retain];<\n>
}<\n>
<\n>
- (id) init<\n>
{<\n>
 self = [super init];<\n>
 return self;<\n>
}<\n>
<\n>
<@methods()><\n>
<if(scope.attributes)>
/* start of iterate get and set functions */<\n>
<methods(scope)><\n>
/* End of iterate get and set functions */<\n>
<endif>
<actions.(actionScope).ruleReturnMethods>
<@ruleReturnMembers()><\n>
@end
/* end of returnScope implementation */<\n><\n>
<endif>
%>

parameterScope(scope) ::= <<
<! <scope.attributes:{it | :(<it.type>)<it.name>} ; separator=" "> !>
<first(scope.attributes):{ a | :(<a.type>)<a.name>}> <rest(scope.attributes):{ a | arg<i>:(<a.type>)<a.name>} ;
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>_Scope *)[<scope>_stack objectAtIndex:[<scope>_stack size]-<negIndex>-1])).<attr.name>
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name>
<else>
((<scope>_Scope *)[<scope>_stack peek]).<attr.name>
<endif>
<endif>
%>

```

```

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
/* scopeSetAttributeRef */
<if(negIndex)>
((<scope>_Scope
*)[<scope>_stack objectAtIndex:([<scope>_stack size]-<negIndex>-1])).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name> = <expr>;
<else>
((<scope>_Scope *)[<scope>_stack peek]).<attr.name> = <expr>;
<endif>
<endif>
%>

```

```

scopeAttributeRefStack() ::= <<
/* scopeAttributeRefStack */
<if(negIndex)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:[<scope>_stack count]-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<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>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)

```

```

<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> /* added to returnAttributeRef */<\n>
<else>
<attr.name><\n>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>; /* added to returnSetAttributeRef */<\n>
<else>
<attr.name> =<expr>;<\n>
<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>!=nil?<scope>.text:nil)"
tokenLabelPropertyRef_type(scope,attr)
::= "<scope>!=nil?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=nil?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=nil?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=nil?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=nil?[<scope> getTokenIndex]:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=nil?[<scope>.text integerValue]:0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=nil?((<labelType> *)<scope>.start):nil)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=nil?((<labelType> *)<scope>.stopToken):nil)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=nil?((<ASTLabelType> *)<scope>.tree):nil)"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
<scope>!=nil?[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor]

```



```

getTokenStartIndex:[<scope> getStart]]
 ToEnd:[input getTreeAdaptor] getTokenStopIndex:[<scope> getStart]]:0)
<else>
(<scope>!=nil?([input toStringFromToken:[<scope> getStart] ToToken:[<scope> getStop]]:0)
<endif>
%>
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=nil?[<scope> st]:nil"

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

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>!=nil?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>!=nil?<scope>.line:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>!=nil?<scope>.charPositionInLine:-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>!=nil?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>!=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>!=nil?<scope>.text:nil)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>!=nil?[<scope>.text
integerValue]: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.stopToken)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
[[input getTokenStream] toStringFromStart:[input getTreeAdaptor]
getTokenStartIndex:retval.start.token.startIndex]
 ToEnd:[input getTreeAdaptor] getTokenStopIndex:retval.start.token.stopIndex]]
<else>
[input toStringFromToken:retval.start ToToken:[input LT:-1]]
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

/* 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.text = <expr>;"
lexerRuleSetPropertyRef_type(scope,attr,expr)
::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "state.tokenStartLine"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "state.tokenStartCharPositionInLine"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "state.channel=<expr>;"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "state.tokenStartCharIndex"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "(input.index-1)"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "state.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)
::= "(input.index-1)"
lexerRulePropertyRef_int(scope,attr) ::= "[<scope>.text integerValue]"

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

/** How to execute an action */
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) ::= <<
static ANTLRBitSet *<name>;
static const unsigned long long <name>_data[] = { <words64:{it | <it>LL};separator=", ">};<n>
>>

bitsetInit(name, words64) ::= <<
<name> = [[ANTLRBitSet newBitSetWithBits:(const unsigned long long *)<name>_data
Count:(NSUInteger)<length(words64)>]
retain];<n>
>>

codeFileExtension() ::= ".m"

true_value() ::= "YES"

```

```
false_value() ::= "NO"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
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```

```
*/
```

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

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

```
<if(!TREE_PARSER)>
```

```
<! tree parser would already have imported !>
```

```
using Antlr.Runtime.Tree;
```

```
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
```

```
<endif>
```

```
>>
```

```

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

parserCtorBody()
::= <<
<super.parserCtorBody()>
<treeAdaptorType()> treeAdaptor = default(<treeAdaptorType()>);
CreateTreeAdaptor(ref treeAdaptor);
TreeAdaptor = treeAdaptor<if(!actions.(actionScope).treeAdaptorType)> ?? new CommonTreeAdaptor()<endif>;
>>

/** 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 CreateTreeAdaptor(ref <treeAdaptorType()> adaptor);

private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
 get
 {
 return adaptor;
 }

 set
 {
 this.adaptor = value;
 <grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor; }>
 }
}
>>

treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

/** Add a variable to track rule's
return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>

```

```

<ASTLabelType> root_0 = default(<ASTLabelType>);<\n>
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <%
<super.ruleLabelDefs(...)>
<if(!ruleDescriptor.isSynPred)>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it|<\n><ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}>
<ruleDescriptor.tokenListLabels: {it|<\n><ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it|<\n>RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}>
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it|<\n>RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}>
<endif>
%>

/** 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 && outerAlt && !rewriteMode && !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.Nil();
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions)

```

```

 ::= <<
 <tokenRefBang(...)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
 >>

 /** Match ^(label+=TOKEN ...) track for rewrite */
 tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
 <tokenRefRuleRootTrack(...)>
 <listLabelElem(elem=label,elemType=labelType,...)>
 >>

 /** 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(...)>
 <listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
 >>

 /** ^(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(...)>
 <listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
 >>

 // 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) ::= <<

```

```

<\n>{
// 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>) {
<endif>
<prevRuleRootRef().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER&&rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef().Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last), retval.Tree);
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER||!rewriteMode)>
<prevRuleRootRef().Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
}
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);};
separator="\n"
>
<referencedTokenListLabels
: {it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>);};
separator="\n"
>
<referencedWildcardLabels
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);};
separator="\n"

```

```

>
<referencedWildcardListLabels
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>);};
separator="\n"
>
<referencedRuleLabels
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null);};
separator="\n"
>
<referencedRuleListLabels
: {it|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>
}
<else>
{
 <a.alt>
}
<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()>
DebugLocation(<e.line>, <e.pos>);<\n>
<e.el>
%>

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

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

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,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,terminalOptions,args)
 ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=","><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=","><if(!args)>"<tokenType>"<endif>)
<endif>
%>
```

```
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp3/AST.stg

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```

```

*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

```

```

@outputFile.imports() ::= <<
<@super.imports(>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

```

```

@genericParser.members() ::= <<
<@super.members(>
private StringTemplateGroup _templateGroup
= new StringTemplateGroup("<name>Templates", typeof(AngleBracketTemplateLexer));

```

```

public StringTemplateGroup TemplateGroup
{
get { return _templateGroup; }
set { _templateGroup = value; }
}
>>

```

```

ruleReturnBaseType() ::= <%
Template<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<StringTemplate, <labelType>>
%>

```

```

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem={<label>.Template},elemType="StringTemplate",...)>
>>

```

```

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.Template);
<else>
((TokenRewriteStream)input).Replace(
retval.Start.TokenIndex,
input.LT(-1).TokenIndex,
retval.Template);
<endif>
>>

```

```

rewriteTemplateAlt(it)
::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>)
{
retval.Template = <it.alt>;
}<\n>
<else>
{
retval.Template = <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) ::= <%
TemplateGroup.GetInstanceOf("<name>"<optionalArguments(args)>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
TemplateGroup.GetInstanceOf(<expr><optionalArguments(args)>)
%>

/**
Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(TemplateGroup, "<template>"<optionalArguments(args)>)
%>

optionalArguments(args) ::= <<
<if(args)>,
new Dictionary<string, object>() { <args:optionalArgument(); separator=", "> }
<endif>
>>

optionalArgument(it) ::= <<
{"<it.name>", <it.value>}
>>

/** 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(TemplateGroup,<stringExpr>)
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ST.stg

```

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 */

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/GrammarDanglingStateMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Interval.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/GrammarUnreachableAltsMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ToolMessage.java
*
/opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarReport.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/CompositeGrammarTree.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NFAFactory.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/LookaheadSet.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSerializerFoo.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/IntArrayList.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CTarget.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/analysis/AnalysisRecursionOverflowException.java
*

```



/opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Perl5Target.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Utils.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/BitSet.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/SemanticContext.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Attribute.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/JavaTarget.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/ACyclicDFACodeGenerator.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/AnalysisTimeoutException.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NonRegularDecisionMessage.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RecursionOverflowMessage.java  
 \*  
 /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFA.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RandomPhrase.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/PythonTarget.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Message.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/LL1DFA.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFA.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFASState.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAConfiguration.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/OrderedHashSet.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ErrorMessage.java  
 \*  
 /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/LL1Analyzer.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSemanticsMessage.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RuleLabelScope.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Python3Target.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAConversionThread.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/MachineProbe.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Target.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSyntaxMessage.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Rule.java  
 \*  
 /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarAST.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/MutableInteger.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSanity.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/IntSet.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/CompositeGrammar.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Strip.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/FASerializer.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarReport2.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/ActionLabel.java  
 \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Interpreter.java

\*  
/opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/GrammarInsufficientPredicatesMessage.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Graph.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DecisionProbe.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSpelunker.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/analysis/RuleClosureTransition.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/StateCluster.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/LeftRecursionCyclesMessage.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Grammar.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/DOTGenerator.java  
\*  
/opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ANTLRErrorListener.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/State.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/analysis/NFAToDFAConverter.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NameSpaceChecker.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/GrammarAnalysisAbortedMessage.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/Transition.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/IntervalSet.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/PredicateLabel.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/ActionScriptTarget.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CSharp2Target.java  
\*  
/opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFAOptimizer.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/analysis/NonLLStarDecisionException.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Barrier.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/GrammarNonDeterminismMessage.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/AssignTokenTypesBehavior.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/JavaScriptTarget.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Interp.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/DelphiTarget.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/Label.java  
\*  
/opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/Tool.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAContext.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/AttributeScope.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAState.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CppTarget.java  
\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/BuildDependencyGenerator.java

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 */
```

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```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CSharp3Target.java
```

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\*/

/\*\* The API version of the runtime that recognizers generated by this runtime  
\* need.

\*/

apiVersion() ::= "1"

/\*\* 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>

<@end>

<actions.(actionScope).header>

```

<! <docComment> !>

for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

token types
<tokens:{it | <it.name>=<it.type>}; separator="\n">

token names
tokenNamesMap = {
 0: "\<invalid>", 1: "\<EOR>", 2: "\<DOWN>", 3: "\<UP>",
 <tokens:{it | <it.type>: "<it.name>"}; wrap, separator=", ">
}
Token.registerTokenNamesMap(tokenNamesMap)

<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, filterMode,
 labelType="CommonToken", superClass="Lexer") ::= <<

```

```

<if(grammar.directDelegates)>
path hack to allow absolute import of related grammars.
from os.path import dirname
__path__ = [dirname(__file__)]
del dirname

<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>; separator="\n">
<endif>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
 <scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>>

 grammarFileName = "<fileName>"
 api_version = <apiVersion()>

 def __init__(self<grammar.delegators:{g|, <g:delegateName()>>, input=None, state=None):
 if state is None:
 state = RecognizerSharedState()
 super().__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.directDelegates:
 {g|<g.delegates:{h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>};
separator="\n">}; separator="\n">
 <grammar.delegators:
 {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
 <last(grammar.delegators):
 {g|self.gParent = <g:delegateName()>}; separator="\n">
 self.delegates = [<grammar.delegates:
{g|self.<g:delegateName()>}; separator = ", ">]

 <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 self.makeEOFToken()

 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 as 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?
 super().memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
 if self._state.backtracking > 1:
 return super().alreadyParsedRule(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, labelType, members,
 rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
token names
tokenNames = [
 "<invalid>", "<EOR>", "<DOWN>", "<UP>",
 <tokenNames; wrap, separator=",">
]

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>

<if(grammar.directDelegates)>
#
 path hack to allow absolute import of related grammars.
 from os.path import dirname
 __path__ = [dirname(__file__)]
del dirname

```



```

<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>; separator="\n">
<endif>

<rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
 grammarFileName = "<fileName>"
 api_version = <apiVersion()>
 tokenNames = tokenNames

 def __init__(self<grammar.delegators:{g|, <g.delegateName()>>, input, state=None, *args, **kwargs):
 if state is None:
 state = RecognizerSharedState()

 <@args()>
 super().__init__(input, state, *args, **kwargs)

<if(memoize)>
<if(grammar.grammarIsRoot)>
 self._state.ruleMemo = {}
<endif>
<endif>

 <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>>; separator="\n">

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>>
 <rules:{it | <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|<g.delegates:{h|self.<h.delegateName()> = self.<g.delegateName()>.<h.delegateName()>;
separator="\n">}; separator="\n">
 <last(grammar.delegators):
 {g|self.gParent = self.<g.delegateName()>; separator="\n">
 self.delegates = [<grammar.delegates: {g|self.<g.delegateName()>; separator = ", ">]

 <@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. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

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

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

<bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it |
<it>};separator=", ">])<n>>

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<\> <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name><(if(ruleDescriptor.parameterScope)
><ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "><endif>)

>>

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

>>

/** 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, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
members={<actions.treeparser.members>},
 init={<actions.treeparser.init>}
) ::= <<

```

```

<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, "TreeNodeStream", superClass,
 labelType, members, "Node",
 filterMode, init, ASTLabelType)>
>>

/** 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()>):
 <ruleLabelDefs()>
<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()>):
<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 as 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>
<elseif(ruleDescriptor.returnScope)>
<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: {it | self.<it>_stack.append(<it>_scope())};
separator="\n">
<ruleDescriptor.ruleScope: {it | self.<it.name>_stack.append(<it.name>_scope())}; separator="\n">
>>

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

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | <it.label.text> = None }; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: {it | list_<it.label.text> = None }; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: {it | <it.label.text> = None }; separator="\n">

```

```
>>
```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = None}; separator="\n"
>
<ruleDescriptor.charLabels: {it
| <it.label.text> = None}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | 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()):
<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:{ a | <altSwitchCase(i, a)> }; 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:{ a | <altSwitchCase(i, a)> }; 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,descriptio
n) ::= <<
<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:{a | <altSwitchCase(i, a)>}; 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:{ a | <altSwitchCase(i, a)>} ; separator="\nel">
 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(altNum,alt) ::= <<
if alt<decisionNumber> == <altNum>:
 <@prealt()>
 <alt>
>>

```

```

/** 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(e) ::= <<
<@prematch(>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(label)><label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, 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>,)
>>

/** For now, sets are interval tests
and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<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(label, label)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)

```

```

<label>StartLine<elementIndex>
= self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(<string>)
<endif>
>>

```

```

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny()
>>

```

```

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
<listLabel(label,label)>
>>

```

```

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

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, 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(rule,label,elementIndex,args,scope)>
<listLabel(label, 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>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
input=self.input,
type=INVALID_TOKEN_TYPE,
channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>,
stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

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

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex>
= self.getCharPositionInLine()
self.match(EOF)

```

```

<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(EOF)
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> |<= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name) ::= "$<name> = $<src>.<name>"

/** 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(pred, description)>):
<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="\nел">
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="\nел">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nел">
<if(eotPredictsAlt)>
else:
 alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
if LA<decisionNumber>
in {<labels; 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) ::= <<
lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
 "<dfa.javaCompressedEOT; wrap=""\n
 \"">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
 "<dfa.javaCompressedEOF; wrap=""\n
 \"">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
 "<dfa.javaCompressedMin; wrap=""\n
 \"">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
 "<dfa.javaCompressedMax; wrap=""\n
 \"">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
 "<dfa.javaCompressedAccept; wrap=""\n
 \"">"
)

```

```

DFA<dfa.decisionNumber>_special = DFA.unpack(
 "<dfa.javaCompressedSpecial; wrap=\"\n \>"
)

DFA<dfa.decisionNumber>_transition = [
 <dfa.javaCompressedTransition:{s|DFA.unpack("<s; wrap=\"\n\>"); 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) ::= "<operands; separator=\" or \">"

notPredicate(pred) ::= "not (<evalPredicate(pred, { })>)"

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>"

lookaheadSetTest(values,k,valuesAsInt) ::= <%
LA<decisionNumber>_<stateNumber> in {<values; separator="," ">}
%>

isolatedLookaheadSetTest(values,k,valuesAsInt) ::= <%
self.input.LA(<k>) in {<values; separator="," ">}
%>

lookaheadVarName(k) ::= "LA<decisionNumber>_<stateNumber>"
isolatedLookaheadVarName(k) ::= "self.input.LA(<k>)"

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

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

globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
 def __init__(self):
 <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>

```

```
>>
```

```
globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>
```

```
ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
 def __init__(self):
 <scope.attributes:{it | self.<it.decl>
= None}; separator="\n">

<endif>
<endif>
>>
```

```
ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>
```

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

```
/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>
```

```
returnStructName(r) ::= "<r.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()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
```

```

def __init__(self):
 super().__init__()

 <if(scope)><scope.attributes:{it | self.<it.decl> = None}; separator="\n"><endif>
 <@ruleReturnInit()>

 <@ruleReturnMembers()>

<endif>
>>

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

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>:
 pass
 <action>

<else>
if <actions.(actionScope).synpredgate>:
 pass
 <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_value() ::= "True"
```

```
false_value() ::= "False"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/Python3.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.
*/

finishedBacktracking(block) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>
if
 <actions.(actionScope).synpredgate>:
 <block>
 <else>
 <block>
<endif>
<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,terminalOptions={ }) ::= <<
<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,terminalOptions={ }) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
 <label>_tree = <createNodeFromToken(...)>
 root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

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

```

```

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

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<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,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})>}, ...)>
%>

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

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

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

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<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(label, {<label>.tree})>
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={ })
::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

```

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

```
wildcardRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>
```

```
createNodeFromToken(label,terminalOptions={ }) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node><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.tree, retval.start, retval.stop)
})>
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/ASTParser.stg
```

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\*/

/\*\* How to generate rules derived from left-recursive rules.

\* These rely on recRuleDefArg(), recRuleAltPredicate(),

\* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()

\* templates in main language.stg

\*/

group LeftRecursiveRules;

recRuleName(ruleName) ::= "<ruleName>\_"

recPrimaryName(ruleName) ::= "<ruleName>\_primary"

recRuleStart(ruleName, minPrec, userRetvals, userRetvalAssignments) ::= <<

<ruleName><if(userRetvals)> returns

[<userRetvals>]<endif>

: <recRuleName(...)>[<minPrec>]

<if(userRetvals)>

{

<userRetvalAssignments; separator="\n">

}

<endif>

;

>>

recRule(ruleName, precArgDef, argName, alts, setResultAction, buildAST,

userRetvals, userRetvalAssignments) ::= <<

<recRuleName(...)>[<precArgDef>]<if(userRetvals)> returns [<userRetvals>]<endif>

: <recPrimaryName(...)>

<if(buildAST)>

{

<setResultAction>

}

<endif>

<if(userRetvals)>

{

<userRetvalAssignments; separator="\n">

}

<endif>

```

 (options { backtrack=false;}
 : (options { backtrack=false;}
 : <alts; separator="\n | ">
)
)*)
;
>>

```

```

recPrimaryRule(ruleName, alts, userRetvals) ::= <<
<recPrimaryName(...)><if(userRetvals)> returns [<userRetvals>]<endif>
options { backtrack=true;}
: <alts; separator="\n | ">
;
>>

```

```

recRuleAlt(alt,
pred) ::= "{<pred>}?=> <alt>"

```

```

recRuleRef(ruleName, arg) ::= "<recRuleName(...)>[<arg>]"

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/LeftRecursiveRules.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, ...
*/

```

```

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>

```

```

/** What to emit when there is no rewrite rule. For auto build

```

```

* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
<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>
<endif>
>>

```

```

/** match ^(root children) in tree parser; override here to

```

```

* add tree construction actions.

```

```

*/
tree(root, actionsAfterRoot, children,
 nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
<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>;
}
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
* setting of _last

```

```

*/
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(if(terminalOptions.tex
t)>,<terminalOptions.text;
format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<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>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)>
<endif>
>>

```

```

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if
(<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
>>

/**
Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.wildcard(...)>
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text;
format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSet(...)>
<endif>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<if(!ruleDescriptor.isSynPred)>
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
<else>
<super.matchRuleBlockSet(...)>
<endif>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>

```

```

<else>
<super.matchSetBang(...)>
<endif>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug)
 ::= <<
<if(!ruleDescriptor.isSynPred)>
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>\\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.ruleRef(...)>
<endif>
>>

```



```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope)
::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
<else>
<super.ruleRefTrack(...)>
<endif>
>>

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

```

```

<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)>
<endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
<else>
<super.ruleRefRuleRootTrack(...)>
<endif>
>>

/**
^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
>>

/** Streams for token refs are tree nodes now; override to
* change NextToken to NextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>

```

<endif>

<endif>

>>

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg

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\*/

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) ::=
<<
//-----
//\<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
//\</auto-generated>
//-----

// $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
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma
warning disable 1591
// CLS compliance checking will not be performed on 'type' because it is not visible from outside this assembly.
#pragma warning disable 3019

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
<@end>
<if(actions.(actionScope).namespace)>

```

```

namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

} // namespace <actions.(actionScope).namespace>
<endif>
>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>},
rewriteElementType={},
ASTLabelType={}) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<tokens: {it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
<scopes: {it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

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

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>
{
OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()>
input<grammar.delegators: {g, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators: {g, <g.delegateName()>}>)
{
}
}

```

```

 <actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input,
RecognizerSharedState state<grammar.delegates:{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, this.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()>};>

 OnCreated();
 }
 public override string GrammarFileName {
 get { return "<fileName>"; } }

<if(grammar.hasDelegates)>
 public override <lexerInputStreamType()> CharStream
 {
 get
 {
 return base.CharStream;
 }
 set
 {
 base.CharStream = value;
 <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()>};>
 }
 }

<if(grammar.delegates)>
 public override void SetState(RecognizerSharedState state)
 {
 base.SetState(state);
 <grammar.delegates:{g|<g.delegateName()>.SetState(state);}; separator="\n">
 }
<endif>

```

```

<endif>
<if(filterMode)>
 <filteringNextToken()>
<endif>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

<rules; separator="\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)>,
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()
{
 while (true)
 {
 if (input.LA(1) == CharStreamConstants.EndOfFile)
 {
 IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile,
TokenChannels.Default, input.Index, input.Index);
 eof.Line = Line;
 eof.CharPositionInLine = CharPositionInLine;
 }
 }
}

```

```

return eof;
}
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,
 labelType, members, rewriteElementType,
 filterMode, ASTLabelType="object") ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
internal
static readonly string[] tokenNames = new string[] {
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};
<endif>
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">

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

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
 base.SetState(state);
 <grammar.delegates:{g|<g.delegateName(>.SetState(state);}; separator="\n">
}

<if(TREE_PARSER)>
public override void SetTreeNodeStream(ITreeNodeStream input)

```

```

{
 base.SetTreeNodeStream(input);
 <grammar.delegates: {g|<g:delegateName().SetTreeNodeStream(input);}; separator="\n">
}
<endif>
<endif>

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

public
override string[] TokenNames { get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
}
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

#region Rules
<rules; separator="\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|
 <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <return Type(ruleDescriptor)>
 <ruleDescriptor.name; format="id"><ruleDescriptor.parameterScope:parameterScope(>> <!throws
RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
 <endif><ruleDescriptor.grammar:delegateName().<ruleDescriptor.name;
format="id"><ruleDescriptor.parameterScope.attributes: {a|<a.name; format="id">}; separator=", ">}; \}};
separator="\n">
#endregion Delegated rules
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs: {dfa | private 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)>,
SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">
}

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

<if(bitsets)>
#region Follow sets
private static class Follow
{
<bitsets:{ it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">
}
#endregion Follow sets
<endif>
}
>>

@genericParser.members() ::= <<
<!
WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType>
input<grammar.delegators:{ g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{ g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegators:{ g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{ g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{ p|, <p.delegateName()>}>,
this);}; separator="\n">
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{ g | <g.delegateName()> = <g.delegator:delegateName()>.<g.delegateName()>};
separator="\n">
<endif>
<if(grammar.delegators)>
<last(grammar.delegators):{ g|gParent = <g.delegateName()>};>
<endif>
<parserCtorBody()>
OnCreated();
}
>>

```

```

//
imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<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={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser
<endif>}, labelType="IToken",
 members={ <actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken",
 filterMode=false, ...)>
>>

/** 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, filterMode, labelType={ <ASTLabelType>}, ASTLabelType="object",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Tree.<
if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},
 members={ <actions.treeparser.members>}) ::= <<
<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) ::=
<<

```

```

partial void EnterRule_<ruleName>_fragment();
partial void LeaveRule_<ruleName>_fragment();

// $ANTLR start <ruleName>
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void
<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
 <ruleLabelDefs(...)>
 EnterRule_<ruleName>_fragment();
 EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
 TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try
 {
 <block>
 }
 finally
 {
 TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
 LeaveRule_<ruleName>_fragment();
 }
}
// $ANTLR end <ruleName>
>>

```

```

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

```

```

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action
fragment)
{
 bool success = false;
 state.backtracking++;
 <@start()>
 try { DebugBeginBacktrack(state.backtracking);
 int start = input.Mark();
 try
 {
 fragment();
 }
 catch (RecognitionException re)
 {
 System.Console.Error.WriteLine("impossible: "+re);
 }
}

```

```

 success = !state.failed;
 input.Rewind(start);
 } finally { DebugEndBacktrack(state.backtracking, success); }
 <@stop()>
 state.backtracking--;
 state.failed=false;
 return success;
}
#endregion Synpreds
<endif>
>>

ruleMemoization(name) ::= <<
 <if(memoize)>
 if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
 <endif>
>>

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

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

ruleWrapperMap ::= [
 "bottomup":{<ruleWrapperBottomup()>},
 "topdown":{<ruleWrapperTopdown()>},
 default:""
]

ruleWrapperBottomup() ::= <<
 <if(TREE_PARSER && filterMode)>
 protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { <if(buildAST)>return
 <endif>bottomup(); }
 <endif>
>>

ruleWrapperTopdown() ::= <<
 <if(TREE_PARSER && filterMode)>
 protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { <if(buildAST)>return
 <endif>topdown(); }
 <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(ruleDescriptor.returnScope)>
partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();
<ruleWrapperMap.(ruleName)>
//
$ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName;
format="id">(<ruleDescriptor.parameterScope:parameterScope(>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp(>
<ruleDeclarations(>
<ruleLabelDefs(...)>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<@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(>
}
<endif>

```

```

<endif>
<endif>
finally
{
 TraceOut("<ruleName>",
<ruleDescriptor.index>);
 LeaveRule("<ruleName>", <ruleDescriptor.index>);
 LeaveRule_<ruleName>();
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
}
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
}
// $ANTLR end "<ruleName>"
>>

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>internal<endif>
>>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>public<endif>
>>

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

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new
<returnType(ruleDescriptor)>(<if(ruleDescriptor.returnScope.attributes)>this<endif>);
retval.Start = (<labelType>)input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;

```



```

}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {it|<it>_stack.Push(new <it>_scope(this));<it>_scopeInit(<it>_stack.Peek());};
separator="\n">
<ruleDescriptor.ruleScope: {it|<it.name>_stack.Push(new
<it.name>_scope(this));<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

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

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

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<[ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
: {it|int <it.label.text> = 0;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it|List<<<labelType>> list_<it.label.text> = null;}; separator="\n"

```

```

>
<ruleDescriptor.charListLabels:{it|List<int> list_<it.label.text> = null;}; separator="\n"
>
>>

returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
 single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!!> retval
<endif>
<endif>
<endif>
<endif>
;
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<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) ::= <<

partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void

```

```

m<ruleName>(<ruleDescriptor.parameterScope.parameterScope(>>)
{
 EnterRule_<ruleName>();
 EnterRule("<ruleName>", <ruleDescriptor.index>);
 TraceIn("<ruleName>", <ruleDescriptor.index>);
 <ruleScopeSetUp(>>
 <ruleDeclarations(>>
 try
 {
 <if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs(>>
 <ruleDescriptor.actions.init>
 <block>
 <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
 {
 TraceOut("<ruleName>", <ruleDescriptor.index>);
 LeaveRule("<ruleName>", <ruleDescriptor.index>);
 LeaveRule_<ruleName>();
 <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()
{
 <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()>
try { DebugEnterSubRule(<decisionNumber>);
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>);
}
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@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()>
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>

```

```

<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description)
 ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<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()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException(<decisionNumber>, input);
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw
eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;

```

```

} finally { DebugExitSubRule(<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()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, false<!
<decision.dfa.hasSynPred!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
default:
goto loop<decisionNumber>;
}
}
}

```

loop<decisionNumber>:

;

```

} finally { DebugExitSubRule(<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(altNum,alt) ::= <<
case <altNum>:
 <@prealt()>
 DebugEnterAlt(<altNum>);
 <alt>
 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(it)
 ::= <%
 <@prematch()>
 DebugLocation(<it.line>, <it.pos>);<\n>
 <it.el><\n>
 %>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

```

```
listLabel(label,elem) ::= <<
#error The listLabel template should not be used with this target.<\n>
>>
```

```
listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List<<elemType; null={<labelType>}>>();
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>,); <checkRuleBacktrackFailure()>
>>
```

```
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,terminalOptions,elementIndex,postmatchCode="") ::= <<
<if(label)>
<matchSetLabel()>
<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);
DebugRecognitionException(mse);
<@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=false) ::= <%
<if(label)>
<matchSetLabel()><\n>
<endif>
input.Consume();<\n>
<if(postmatchCode)>
<postmatchCode><\n>
<endif>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
%>

matchSetLabel()
::= <%
<if(LEXER)>
<label>= input.LA(1);
<else>
<label>=(<labelType>)input.LT(1);
<endif>
%>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<if(label)>
int <label>Start = CharIndex;<\n>
Match(<string>); <checkRuleBacktrackFailure()><\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>

```

```

%>

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

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

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

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** 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>;
format="id">(<args; separator="," ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label,elemType={ <ASTLabelType> },...)>
>>

```

```

/** 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;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
%>

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

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF);
<checkRuleBacktrackFailure()>
<endif>
%>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"

```

```

recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenType.Down)
{
 Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(input, TokenType.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenType.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>_<k> = input.LA(<k>);<n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);

```

```

DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<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>_<k> = 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>_<k> = 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, <k>);
 DebugRecognitionException(nvae);
 <@noViableAltException()>
 throw
 nvae;
 }
 <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">
 <if(eotPredictsAlt)>
 default:
 alt<decisionNumber>=<eotPredictsAlt>;
 break;<\n>

```

```

<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: {it|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) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException
nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

/* 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 class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\t\t\t"">";

```

```

private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\t\>";
private const string
DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t\>";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\t\>>";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition:{s|<s; wrap="\n\t\>"; separator=",\n">
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private 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 Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
 DebugRecognitionException(nvae);
}
}<\n>
<if(dfa.specialStateSTs)>
private 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;
 s = -1;
 <! pull these outside the switch cases to save space on locals !>
 int LA<dfa.decisionNumber>_1 = input.LA(1);
 int index<dfa.decisionNumber>_1 = input.Index;
 switch (_s)
 {
 <dfa.specialStateSTs: {state |case <i0>:<! compressed special state numbers 0..n-1 !>
 <state>};
 separator="\n">

 default:
 break;
 }

 if (s >= 0)
 return s;

 <if(backtracking)>
 if (state.backtracking > 0) {state.failed=true; return -1;}

```

```

<endif>
 NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
 dfa.Error(nvae);
 throw nvae;
}
<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) ::= <<
{
<if(semPredState)>
<! get next lookahead symbol to test edges, then rewind !>
input.Rewind();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
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) ::= "(<operands; separator=\\|\\>)"

```

```

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

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

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

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<k>===<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>_<k><ge()><lower>
 && LA<decisionNumber>_<k><le()><upper>)
%>

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

le() ::= "\<="
ge() ::= ">="

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

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

attributeScope(scope) ::= <<
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
<scope.attributes:{ it|public <it.decl>;}; separator="\n">

public <scope.name>_scope(<grammar.recognizerName> grammar) { OnCreated(grammar); }
partial void OnCreated(<grammar.recognizerName> grammar);
}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit(<scope.name>_scope scope)
{
<scope.actions.scopeinit>
}
<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>
}
<else>
partial
 void <scope.name>_scopeAfter(<scope.name>_scope scope);
<endif>
protected readonly ListStack<<<scope.name>_scope> <scope.name>_stack = new
ListStack<<<scope.name>_scope>();
<endif>
>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

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

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
 <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
 <ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
 <ruleDescriptor.singleValueReturnType>
<else>
 void
<endif>
%>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
 <ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
 <referencedRule.singleValueReturnType>
<else>
 void
<endif>
%>

```

```

delegateName(it)
 ::= <<
<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(label.referencedRule)> <label.label.text> = <initValue(ruleLabelType(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(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
<ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
{
<scope.attributes:{it|public
<it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

ruleReturnBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%>

@returnScope.ruleReturnMembers() ::= <<
public <ruleDescriptor:returnStructName()>(<grammar.recognizerName> grammar) { OnCreated(grammar);}
partial void OnCreated(<grammar.recognizerName> grammar);
>>

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

parameterAttributeRef(attr) ::= <<
<attr.name; format="id">

```

>>

```
parameterSetAttributeRef(attr,expr) ::= <<
<attr.name; format="id"> =<expr>;
>>
```

```
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id">
<else>
<scope>_stack.Peek().<attr.name; format="id">
<endif>
<endif>
>%
```

```
scopeSetAttributeRef(scope,attr,expr,index,negIndex)
::= <%
<if(negIndex)>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id"> = <expr>;
<else>
<scope>_stack.Peek().<attr.name; format="id"> = <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.Count>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?(<return Type(referencedRule)><scope>).<attr.name; format="id">:<initValue(attr.type)>
<else>
<scope>
<endif>
>%
```

```
returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
```

```

retval.<attr.name; format="id">
<else>
<attr.name;
format="id">
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<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:default(string)"
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):default(<labelType>))"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?((<labelType><scope>.Stop):default(<labelType>))"
ruleLabelPropertyRef_tree(scope,attr) ::=
"<scope>!=null?((<ASTLabelType><scope>.Tree):default(<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
(<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string))
<else>
(<scope>!=null?input.ToString(<scope>.Start,<scope>.Stop):default(string))
<endif>
%>

```

```
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.Template: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:default(string))"
```

```
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) ::= "retval.Start"
```

```
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
```

```
rulePropertyRef_tree(scope,attr) ::= "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.Template"
```

```
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.Template =<expr>";

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

@execAction.indentedAction() ::= <<
<action>
>>

/** 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|<it>UL } ; separator="," > });
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/CSharp3.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, ...

\*/

```
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,terminalOptions={ }) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
>>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<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,terminalOptions={ }) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
_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,elementIndex,postmatchCode,terminalOptions={ }) ::= <<
_last = self.input.LT(1)

```

```

<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree
= self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<endif>
}, ...)>
>>

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

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

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<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(label, {<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(label, {<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.ruleRefRootTrack(...)>
>>

/** ^(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,scope,terminalOptions={ }) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ASTTreeParser.stg

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

/\*

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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, ...

\*/

/\* addition memVars for returnscopes \*/

@returnScopeInterface.memVars()

::= <<

/\* ASTTreeParser returnScopeInterface.memVars \*/

<recognizer.ASTLabelType; null="CommonTree"> \*tree;

>>

/\*\* the interface of returnScope methodsDecl \*/

@returnScopeInterface.methodsDecl() ::= <<

/\* ASTTreeParser returnScopeInterface.methodsDecl \*/

- (<recognizer.ASTLabelType; null="CommonTree"> \*)getTree;

- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> \*)aTree;<\n>

>>

/\*\* the implementation of returnScope methods \*/

@returnScope.methods() ::= <<

/\* ASTTreeParser returnScope.methods \*/

- (<ASTLabelType> \*)getTree

{

return tree;

```

}

- (void) setTree:(<ASTLabelType> *)aTree
{
 if (tree != aTree) {
 if (tree != nil) [tree release];
 if (aTree != nil) [aTree retain];
 tree = aTree;
 }
}

- (void) dealloc
{
 [self setTree:nil];
 [super dealloc];
}

@synthesize tree;
>>

@returnScopeProperties() ::= <<
@property (retain) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/**
 Add a variable to track last element matched */
ruleDeclarations() ::= <<
/* ASTTreeParser ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *_first_0 = nil;
<ASTLabelType> *_last = nil;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType> *)_first_0;
if ([treeAdaptor getParent:retval.tree] != nil && [treeAdaptor isNil:[treeAdaptor getParent:retval.tree]]))
 retval.tree = (<ASTLabelType> *)[treeAdaptor 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) ::= <<
/* ASTTreeParser tree */
_last = (<ASTLabelType>
*)(input LT:1);
{
<ASTLabelType> *_save_last_<treeLevel> = _last;
<ASTLabelType> *_first_<treeLevel> = nil;
<if(!rewriteMode)>
<ASTLabelType> *root_<treeLevel> = [[[treeAdaptor class] newEmptyTree] retain];
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel>==nil) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if (_first_<enclosingTreeLevel>==nil) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ([input LA:1] == TokenTypeDOWN) {
[self match:input TokenType:TokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input TokenType:TokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
[self match:input TokenType:TokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input TokenType:TokenTypeUP
Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
[treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
<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,terminalOptions) ::= <<

```

```

/* ASTTreeParser tokenRefBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
 <label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
 <label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif><\n>
 [treeAdaptor addChild:<label>_tree
toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==nil) _first_<treeLevel> = <label>;
<endif>
>>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif><\n>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}<endif>
<endif>

```

```

>>

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

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser wildcard */
_last = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType> *)[adaptor dupTree:<label>];
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == nil) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser
 matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif><\n>
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}\}<endif>
<endif>
}, ...
)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<

```

```

/* ASTTreeParser matchRuleBlockSet */
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if
(<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif><\n>
root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}\}<endif>
<endif>
}, ...
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
<if(!rewriteMode)>
[treeAdaptor addChild:<label>.tree toTree:root_<treeLevel>];
<else> <! rewrite mode !>
if (_first_<treeLevel> == nil) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefAndListLabel

```

```

*/
<ruleRef(...)>
<!listLabel(elem = "["+label+" getTree]",...)> !>
<listLabel(elem = {[<label> getTree]},...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking == 0) <endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>.tree old:root_<treeLevel>];
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {[<label> getTree]},...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrack(...)>
>>

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

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

/* ASTTreeParser ruleRefRuleRootTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
/* ASTTreeParser createRewriteNodeFromElement */
<if(terminalOptions.node)>
<! new <terminalOptions.node>(stream_<token>.nextNode()) !>
[[[<terminalOptions.node>(stream_<token>
alloc] init] nextNode];
<else>
<! stream_<token>.nextNode() !>
[stream_<token> nextNode]
<endif>
>>

ruleCleanUp() ::= <<
/* ASTTreeParser ruleCleanUp */
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<\n><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.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.
*/

```

```

@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,terminalOptions) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)><\n>if (state.backtracking == 0) {<endif>
<\n><label>_tree = <createNodeFromToken(...)>;
<\n>adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)><\n>}<endif>

```

```

<endif>
%>

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

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)><\n>if (<actions.(actionScope).synpredgate>)
{<endif>
<\n><label>_tree = <createNodeFromToken(...)>;
<\n>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)><\n>}<endif>
<endif>
%>

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

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

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

// 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,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={ <if(!ruleDescriptor.isSynPred)><if(backtracking)>if
(<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);<endif>},
...)>
>>

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

matchSetBang(s,label,elementIndex,terminalOptions,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,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);
<endif>
<super.matchSet(postmatchCode={ <if(!ruleDescriptor.isSynPred)><if(backtracking)>if
(<actions.(actionScope).synpredgate>) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);<endif>}, ...) >
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <%
<super.ruleRef(...)>
<if(!ruleDescriptor.isSynPred)>
<\n><if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
<endif>
%>

/** 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(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
<endif>
>>

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

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<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>
<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>)
<else>

```

```
(<ASTLabelType>)adaptor.Create(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>)<endif>
%>
```

```
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)
{<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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTParser.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 (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,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<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,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions)
::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<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,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);

```



```

<else>
<label>_tree =
 (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)><endif>
<endif>
}
)>
>>

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

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

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<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,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
```

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```
*/
```

```
/** 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:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it | 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 conatins 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 | <it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">

<ruleDescriptor.allTokenRefsInAltsWithRewrites
:{it | 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
:{it | 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 = NULL;
>>

/** 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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<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
 :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}
 separator="\n"
>
<referencedTokenListLabels
 :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM
 stream_<it>;}
 separator="\n"
>
<referencedRuleLabels
 :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}
 separator="\n"
>
<referencedRuleListLabels
 :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}
 separator="\n"
>
>>

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
: {it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>);}
separator="\n"
>

```

```

<referencedTokenListLabels
:{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>); };
separator="\n"
>
<referencedRuleLabels
:{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
separator="\n"
>
<referencedRuleListLabels
:{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token
<it>", list_<it>);};
separator="\n"
>
>>
rewriteCodeLabelsFree() ::= <<
<referencedTokenLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedTokenListLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
<referencedRuleLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
<referencedRuleListLabels
:{it | 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,terminalOptions,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** 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,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createRewriteNodeFromElement(...)>, root_<treeLevel>));<\n>
>>

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

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,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,terminalOptions,args) ::= <<

```

```

<if(terminalOptions.node)>
<!
new MethodNode(IDLabel, args) !>
<terminalOptions.node>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,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/AST.stg  
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Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/Dbg.stg
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/Dbg.stg
*
/opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/AST.stg
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/serialize.g
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Java/ASTParser.stg
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/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) ::= "error <id> : <text>"

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

wantsSingleLineMessage()

::= "true"

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/messages/formats/vs2005.stg

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 \*/

```
dfa(decisionRanks,states,edges,rankdir,startState,useBox) ::= <<
digraph NFA {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
nfa(decisionRanks,states,edges,rankdir,startState) ::= <<
digraph NFA {
rankdir=LR;
<decisionRanks;
separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states; separator="; ">}
>>
```

```
edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead =
<arrowhead><endif>];
>>
```

```
action-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead =
<arrowhead><endif>];
>>
```

```
epsilon-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontname="Times-Italic", label = "e"];
>>
```

```
state(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>box<else>circle, fixedsize=true, width=.4<endif>]; <name>
>>
```

```
stopstate(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>polygon,sides=4,peripheries=2<else>doublecircle, fixedsize=true,
width=.6<endif>]; <name>
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/dot/dot.stg
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```

```
/*
```

```
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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 : Python by code generator.
*/
group ASTDbg;

astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
<if(grammar.grammarIsRoot)>
 self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
<else>
 self._adaptor = adaptor # delegator sends dbg adaptor
<endif>
 <grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(self._adaptor)}>

def
getTreeAdaptor(self):
 return self._adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)<\n>
>>

createListenerAndHandshake() ::= <<
proxy = DebugEventSocketProxy(self,
adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor(<else>self._adaptor<endif>,
 debug=debug_socket, port=port)
self.setDebugListener(proxy)
self.adaptor.setDebugListener(proxy)
self.input.setDebugListener(proxy)
#self.set<inputStreamType>(Debug<inputStreamType>(self.input, proxy))
proxy.handshake()
>>

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/ASTDbg.stg

```

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```

/*

```

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\*/

/\*\* Template subgroup to add template rewrite output

\* If debugging, then you'll also get STDbg.stg loaded.

\*/

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

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

```
import stringtemplate3
```

```
>>
```

/\*\* Add this to each rule's return value struct \*/

```
@returnScope.ruleReturnInit() ::= <<
```

```
self.st = None
```

```
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
def getTemplate(self):
```

```
 return self.st
```

```
def toString(self):
```

```
 if self.st is not None:
```

```
 return
```

```
 self.st.toString()
```

```
 return None
```

```
__str__ = toString
```

```
>>
```

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

```
<@super.init(>
```

```
self.templateLib = stringtemplate3.StringTemplateGroup(
```

```

'<name>Templates', lexer='angle-bracket'
)

>>

@genericParser.members() ::= <<
<@super.members()>
def setTemplateLib(self, templateLib):
 self.templateLib = templateLib

def getTemplateLib(self):
 return self.templateLib

>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
TEMPLATE REWRITE
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <first(alts):rewriteTemplateAltFirst()>
 <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
 <if(rewriteMode)><replaceTextInLine()><endif>

<else>
<first(alts):rewriteTemplateAltFirst()>
<rest(alts):{it | el<rewriteTemplateAlt(it)>}>
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine()
::= <<
<if(TREE_PARSER)>
self.input.getTokenStream().replace(
 self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
 self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
 retval.st
)
<else>
self.input.replace(
 retval.start.getTokenIndex(),
 self.input.LT(-1).getTokenIndex(),

```

```
 retval.st
)
<endif>
>>
```

```
rewriteTemplateAltFirst(alt) ::= <<
<if(alt.pred)>
if <alt.pred>:
 # <alt.description>
 retval.st = <alt.alt>
<\n>
<else>
<alt.description>
retval.st = <alt.alt>
<\n>
<endif>
>>
```

```
rewriteTemplateAlt(alt) ::= <<
<if(alt.pred)>if <alt.pred>:
 # <alt.description>
 retval.st = <alt.alt>
<\n>
<else>se:
 # <alt.description>
 retval.st = <alt.alt>
<\n>
<endif>
>>
```

```
rewriteEmptyTemplate(alts) ::= <<
None
>>
```

```
/** 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) ::= <%
self.templateLib.getInstanceOf("<name>"<if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator="
">}<endif>
%>
```

```
/** expr is a string expression that says what template to load */
```

```
rewriteIndirectTemplate(expr,args) ::= <%
```

```

self.templateLib.getInstanceOf(<expr><if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator=","
"><endif>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args)>, attributes={<args:{ a |
"<a.name>": <a.value>}; separator="," "><endif>)
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>)[("<attrName>")]
= <expr>
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/ST.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/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/tool/templates/messages/formats/antlr.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, ...

\*/

/\*\* Add a variable to track last element matched \*/

ruleDeclarations()

::= <<

<super.ruleDeclarations()>

<if(!ruleDescriptor.isSynPred)>

<ASTLabelType> \_first\_0 = null;

<ASTLabelType> \_last = null;<\n>

<endif>

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<

<if(!ruleDescriptor.isSynPred)>

<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

<if(rewriteMode)>

retval.tree = \_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>

<endif>

```

>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _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> =
 (<ASTLabelType>)<root.el.label>.getTree();
 <elseif(root.el.label)>
 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>
 <else>
 <super.tree(...)>
 <endif>
>>

```

```

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<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>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
<listLabel(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)>
<endif>
>>

```

```

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

```

```

/**
Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
>>

```

```

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.wildcard(...)>

```

```

<endif>
>>

// SET AST

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={})
 ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
 <super.matchSet(postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = new <terminalOptions.node>(<label>);
 <else>
 <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
 <endif><\n>
 adaptor.addChild(root_<treeLevel>, <label>_tree);
 <if(backtracking)>}\}<endif>
 <endif>
 }, ...
)>
 <else>
 <super.matchSet(...)>
 <endif>
 >>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
 <matchSet(...)>
 <noRewrite(...)> <! set return tree !>
 <else>
 <super.matchRuleBlockSet(...)>
 <endif>
 >>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
 <super.matchSet(...)>
 <else>
 <super.matchSetBang(...)>
 <endif>
 >>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={})
 ::= <<
<if(!ruleDescriptor.isSynPred)>

```

```

<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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> = (<ASTLabelType>)<label>.getTree();
<endif>
<else>
<super.ruleRef(...)>
<endif>
>>

/**
x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */

```

```

ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_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>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

```

```

/**
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) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)>
<endif>
>>

```

```

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
<else>
<super.ruleRefRootTrack(...)>
<endif>

```



```

>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
>>

/**
Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,args,terminalOptions={ }) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanup() ::= <<
<super.ruleCleanup()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg

```

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\*/

group Perl5;

```
/** 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 Carp;
use English qw(-no_match_vars);
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

use Moose;

extends 'ANTLR::Runtime::Lexer';

Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
sub HIDDEN { $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 !>

no Moose;
__PACKAGE__->meta->make_immutable();
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 English qw(-no_match_vars);
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

```

```

use Moose;

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 !>

```

```

no
Moose;
__PACKAGE__->meta->make_immutable();
1;
__END__
>>

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:{ll|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>
}
>>

//
SUBRULES

/** 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,terminalOptions) ::= <<
<if(label)>$<label> =<endif>$self->match($self->input, <token>,
$FOLLOW_<token>_in_<ruleName><elementIndex>);

```

```

<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<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>,); <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,elementIndex) ::= <<
<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;
}
<endif>

my $nvae =
 ANTLR::Runtime::NoViableAltException->new({
 grammar_decision_description => $self->get_description(),
 decision_number => <dfa.decisionNumber>,
 state_number => $s,
 input => $input,
 });
$self->error($nvae);
$nvae->throw();
}
}
}

/** 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) ::= "<operands; separator=\"||\">"

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/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Perl5/Perl5.stg
No license file was found, but licenses were detected in source scan.

/*
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\*/

/\*

\* This code generating template and the associated Cpp runtime was produced by:

\* Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )

\*/

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

"bool" : "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

]

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 Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim

Idle )



```

*
*
>>

/** 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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```

```

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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>.hpp"
```

```
<if(recognizer.grammar.delegators)>
```

```
// Include delegator definition header files
```

```
//
```

```
<recognizer.grammar.delegators: {g#include "<g.recognizerName>.hpp" }; separator="\n">
```

```
<endif>
```

```
<actions.(actionScope).postinclude>
```

```
/*
```

```
----- */
```

```
<docComment>
```

```

<if(literals)>

<beginNamespace(actions)>

/** 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 UIN32
 * and passing in the address of these.
 */
<literals:{it | static ANTLR_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endNamespace(actions)>

<endif>

/* ===== */

/* =====
 * Start of recognizer
 */

<recognizer>

/* End of code
 * =====
 */

>>
headerFileExtension() ::= ".hpp"

beginNamespace(actions)
 ::= <<
 <if(actions.actionScope.namespace)>
 namespace <actions.actionScope.namespace> {
 <endif>
>>

endNamespace(actions) ::= <<
 <if(actions.actionScope.namespace)>
 }
 <endif>
>>

headerFile(LEXER,
 PARSE,

```

```

 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.

- \*

```

*/
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//
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// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#ifndef _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 C++ runtime definitions
*/
#include <antlr3.hpp>

/* End of standard antlr 3 runtime definitions
* =====
*/

<actions.(actionScope).includes>

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|#include "<g.recognizerName>.hpp"}; separator="\n">

```

<endif>

<actions.(actionScope).header>

#ifdef WIN32

```
// 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>

<beginNamespace(actions)>

<if(recognizer.grammar.delegators)>

```
// Include delegator definition classes
```

```
//
```

```
<recognizer.grammar.delegators: {gclass <g.recognizerName>; }; separator="\n">
```

<endif>

<actions.(actionScope).traits>

```
typedef <name>Traits <name>ImplTraits;
```

```

<rules:{r | <if(r.ruleDescriptor.isSynPred)> struct <r.ruleDescriptor.name> {\}; <endif>}; separator="\n">
<rules:{r |<headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>}>

class <name>Tokens
{
public:
/** 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 ANTLR_TOKEN_EOF.

 */
enum Tokens
{
EOF_TOKEN = <name>ImplTraits::CommonTokenType::TOKEN_EOF
<tokens:{it | , <it.name> = <it.type> }; separator="\n">
};

};

/** Context tracking structure for <mainName()>
 */
class <name> : public <componentBaseType()>, public <name>Tokens
{
public:
typedef <name>ImplTraits ImplTraits;
typedef <name> ComponentType;
typedef ComponentType::StreamType StreamType;
typedef <componentBaseType()> BaseType;
typedef ImplTraits::RecognizerSharedStateType\<StreamType> RecognizerSharedStateType;
typedef StreamType InputType;
<if(recognizer.filterMode)>
static const bool IsFiltered = true;
<else>
static const bool IsFiltered = false;
<endif>

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(it)><endif>}>
<rules:{r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>

private:
<if(recognizer.grammar.delegates)>
<recognizer.grammar.delegates:
 {g|<g.recognizerName>* m_<g.delegateName()>;};

```

```

separator="\n">
<endif>
<if(recognizer.grammar.delegators)>
 <recognizer.grammar.delegators:
 {g|<g.recognizerName>* m_<g.delegateName(>);}; separator="\n">
 <endif>
<scopes:{it | <if(it.isDynamicGlobalScope)>
 <globalAttributeScopeDef(it)>
<endif>}; separator="\n\n">
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
 <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif>}>
 <@members>
 <@end>

public:
 <name>(InputType* instream<recognizer.grammar.delegators:{g|, <g.recognizerName>*
<g.delegateName(>}&>);
 <name>(InputType* instream, RecognizerSharedStateType* state<recognizer.grammar.delegators:{g|,
<g.recognizerName>* <g.delegateName(>}&>);

 void init(InputType* instream <recognizer.grammar.delegators:{g|, <g.recognizerName>* <g.delegateName(>}&>
);

<if(LEXER)>
<if(recognizer.filterMode)>
 void memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart);
 bool alreadyParsedRule(ANTLR_MARKER ruleIndex);
<endif>

 <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
m<r.ruleDescriptor.name>(<r.ruleDescriptor.parameterScope:parameterScope(>);<endif> }; separator="\n">
 <rules:{r | <if(r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(
antlr3::ClassForwarder< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope(>);
 void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope(>);<endif> };
separator="\n">
<endif>
<if(!LEXER)>
 <rules:{r | <if(!r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
<r.ruleDescriptor.name> (<r.ruleDescriptor.parameterScope:parameterScope(>); <endif> }; separator="\n">
 <rules:{r | <if(r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(
antlr3::ClassForwarder< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope(>);
 void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope(>);<endif> };
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><(ruleDescriptor.parameterScope:parameterScope())>; separator="\n">
<endif>

 const char * getGrammarFileName();
 void reset();
 ~<name>();

 <actions.(actionScope).context>
};

// Function protoypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
<if(!recognizer.grammar.grammarIsRoot)>
extern ANTLR_UINT8* <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/* End of token definitions for <name>
* =====
*/
/** \} */

<endNamespace(actions)>

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

componentType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType
<endif>

```

```

<if(LEXER)>
<name>ImplTraits::LexerType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::TreeParserType
<endif>
>>

componentBaseType() ::= <<
<if(PARSER)>
<name>ImplTraits::BaseParserType
<endif>
<if(LEXER)>
<name>ImplTraits::BaseLexerType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::BaseTreeParserType
<endif>
>>

streamType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType::StreamType
<endif>
<if(LEXER)>
<name>ImplTraits::LexerType::StreamType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::TreeParserType::StreamType
<endif>
>>

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor)
::= "<returnScope(...)>"

```

```

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!ruleDescriptor.isSynPred)>
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
>>

// Produce the lexer output
//
lexer(grammar,
name,
 tokens,
 scopes,
 rules,
 numRules,
 filterMode,
 superClass,
 labelType="ImplTraits::CommonTokenType") ::= <<

using namespace antlr3;

<beginNamespace(actions)>

<if(filterMode)>

/* 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.
 */
void <name>::memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart)
{
 BaseType* base = this;
 if (this->get_backtracking()>1
)
 base->memoize(ruleIndex, ruleParseStart);
}

bool <name>::alreadyParsedRule(ANTLR_MARKER ruleIndex)
{
 BaseType* base = this;
 if (this->get_backtracking() > 1)

```

```

 return base->haveParsedRule(ruleIndex);
return false;
}

<endif>

/* =====
* Lexer matching rules end.
* =====
*/

<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>

<actions.lexer.members>

<name>::~~<name>()
{
<if(memoize)>
RuleMemoType* rulememo = this->getRuleMemo();
if(rulememo != NULL)
{
delete rulememo;
this->setRuleMemo(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| m_<g:delegateName()->set_lexstate(NULL);
 delete m_<g:delegateName()->
}; separator="\n">
<endif>
}

void
<name>::reset()
{
 this->get_rec()->reset();
}

/** \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.
*/

```

```

const char* <name>::getGrammarFileName()
{
 return fileName;
}

/** \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
 */
<name>::<name>(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>>>)
:<name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, NULL)
{
 // See if we can create a new lexer with the standard constructor
 //
 this->init(instream <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
 */
<name>::<name>(StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|,
<g.recognizerName>* <g.delegateName()>>>)
:<name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, state)
{
 this->init(instream <grammar.delegators:{g|, <g.delegateName()>>>);
}

void <name>::init(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>> >)
{
 /* -----
 * 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.

```

```

*/

<if(memoize)>
<if(grammar.grammarIsRoot)>
 // Create a LIST for recording rule memos.
 //
 this->setRuleMemo(new IntTrie(15)); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

<if(grammar.directDelegates)>
 // Initialize the lexers that we are going to delegate some
 // functions to.
 //
 <grammar.directDelegates:
 { g|m_<g:delegateName()> = new <g.recognizerName>(instream, this->get_lexstate(),
this<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.delegates:
 { g| m_<g:delegateName()> = <g:delegateName()>; separator="\n">
 <endif>
}

<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
* =====
* =====
*/

<endNamespace(actions)>

>>

```

```

filteringNextToken() ::= <<
<name>ImplTraits::CommonTokenType*
<name>ImplTraits::TokenSourceType::nextToken()
{
 LexerType* lexer;
 typename LexerType::RecognizerSharedStateType* state;

 lexer = this->get_super();
 state = lexer->get_lexstate();

 /* Get rid of any previous token (token factory takes care of
 * any deallocation when this token is finally used up.
 */
 state->set_token_present(false);
 state->set_error(false); /* Start out without an exception */
 state->set_failedflag(false);

 /* Record the start of the token in our input stream.
 */
 state->set_tokenStartCharIndex(lexer->index());
 state->set_tokenStartCharPositionInLine(lexer->getCharPositionInLine());
 state->set_tokenStartLine(lexer->getLine());
 state->set_text("");

 /* Now call the matching rules and see if

```

we can generate a new token

```
*/
for (;;)
{
if (lexer->LA(1) == ANTLR_CHARSTREAM_EOF)
{
/* Reached the end of the stream, nothing more to do.
*/
CommonTokenType& teof = m_eofToken;

teof.set_startIndex(lexer->getCharIndex());
teof.set_stopIndex(lexer->getCharIndex());
teof.setLine(lexer->getLine());
return &teof;
}

state->set_token_present(false);
state->set_error(false); /* Start out without an exception */

{
ANTLR_MARKER m;

m = this->get_istream()->mark();
state->set_backtracking(1); /* No exceptions */
state->set_failedflag(false);

/* Call the generated lexer, see if it can get a new token together.
*/
lexer->mTokens();
state->set_backtracking(0);

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if(state->get_failed())
{
lexer->rewind(m);
lexer->consume(); <! advance
one char and try again !>
}
else
{
lexer->emit(); /* Assemble the token and emit it to the stream */
TokenType& tok = state->get_token();
return &tok;
}
}
}
```



```

}
>>

actionGate() ::= "this->get_backtracking()==0"

filteringActionGate() ::= "this->get_backtracking()==1"

/** How to generate a parser */
genericParser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,
 numRules,
 bitsets,
 inputStreamType,
 superClass,
 labelType,
 members,
 rewriteElementType, filterMode,
 ASTLabelType="ImplTraits::TreeType*"
) ::= <<

using namespace antlr3;
<if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
 * error reporting.
 */
ANTLR_UINT8* <name>TokenNames[<length(tokenNames)>+4]
 = {
 (ANTLR_UINT8*)
 "\<invalid>", /* String to print to indicate an invalid token */
 (ANTLR_UINT8*) "\<EOR>",
 (ANTLR_UINT8*) "\<DOWN>",
 (ANTLR_UINT8*) "\<UP>",
 <tokenNames:{it |(ANTLR_UINT8*) <it>; separator=",\n">
 };
 <endif>

 <@members>

 <@end>

/** \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.
*/
const char* <name>::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.
*/
<name>::<name>(StreamType* instream<grammar.delegators:{g|,<g.recognizerName>* <g.delegateName()>>>)
<constructorInitializerType("NULL")>
{
 // See if we can create a new parser with the standard constructor
 //
 this->init(instream<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.
*/
<name>::<name>(StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|,
<g.recognizerName>* <g.delegateName()>>>)
<constructorInitializerType("state")>
{
 this->init(instream <grammar.delegators:{g|,<g.delegateName()>>>);
}

void <name>::init(StreamType* instream<grammar.delegators:{g|,<g.recognizerName>* <g.delegateName()>>>)
{
 <actions.parser.apifuncs>
 <actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
 /* Create a LIST for recording rule memos.
 */
 typedef RecognizerSharedStateType::RuleMemoType RuleMemoType;
 this->setRuleMemo(new RuleMemoType(15)); /* 16 bit depth is enough for 32768 rules! */<\n>
<endif>
<endif>
<if(grammar.directDelegates)>
 //

```

```

Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
 {g|m_<g:delegateName()> = new <g.recognizerName>(instream, this->get_psrstate(),
this<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.delegates: {g| m_<g:delegateName()> = <g:delegateName()>; separator="\n">
<endif>
/* Install the token table
*/
this->get_psrstate()->set_tokenNames(<grammar.composite.rootGrammar.recognizerName>TokenNames);

<@debugStuff()>

}

void
<name>::reset()
{
 this->get_rec()->reset();
}

/** Free the parser resources
*/
<name>::~~<name>()
{
 <@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| m_<g:delegateName()>->set_psrstate(NULL);
 delete m_<g:delegateName()>; separator="\n">
<endif>
<if(memoize)>
<if(grammar.grammarIsRoot)>
if(this->getRuleMemo() != NULL)
{
 delete this->getRuleMemo();
 this->setRuleMemo(NULL);
}
}

```

```

<endif>
<endif>
}

/** 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 ANTLR_UINT8** getTokenNames()
{
 return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets
 */
<bitsets:{it | <bitsetDeclare(bitsetName={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits, traits={<name>ImplTraits })>>}>

<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()> <name>::<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>)
 {
 <if(ruleDescriptor.hasReturnValue)>return <endif> m_<ruleDescriptor.grammar:delegateName()>-

```

```

<<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", ">
 \}); separator="\n">

<endif>
/* End of parsing rules
* =====
*/

/* =====
* Syntactic predicates
*/
<synpreds:{ p | <synpred(predname=p)>}>
/* End
of syntactic predicates
* =====
*/

>>

constructorInitializerType(rec_state) ::= <<
<if(PARSER)>
 :ImplTraits::BaseParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
<if(TREE_PARSER)>
 :ImplTraits::BaseTreeParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
>>

parser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,
 numRules,
 bitsets,
 ASTLabelType,
 superClass="Parser",
 labelType="const CommonTokenType*",
 members={<actions.parser.members>}
) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTokenStreamType*", rewriteElementType="TOKEN", ...)>
<endNamespace(actions)>
>>

/** 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,
 filterMode,
 labelType={<ASTLabelType>},
 ASTLabelType="TreeType*",
 superClass="TreeParser",
 members={<actions.treeparser.members>}
)
::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTreeNodeStream*", rewriteElementType="NODE", ...)>
<endNamespace(actions)>
>>

/** 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>
void <name>::m<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(>)
{
 <ruleLabelDefs(>
 <ruleLabelInitializations(>
 <if(trace)>
 ANTLR_PRINTF("enter <ruleName> %d failed = %d, backtracking
= %d\n", this->LT(1),failed,this->get_backtracking());
 <block>
 ANTLR_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n", this->LT(1),failed,this-
>get_backtracking());

 <else>
 <block>
 <endif>
 <ruleCleanup(>
}

```

```

// $ANTLR end <ruleName>
>>

synpred(predname) ::= <<

bool <name>::msynpred(antlr3::ClassForwarder\< <predname> >)
{
 ANTLR_MARKER start;
 bool success;

 this->inc_backtracking();
 <@start()>
 start = this->mark();
 this->m<predname>_fragment(); // can never throw exception
 success = !(this->get_failedflag());
 this->rewind(start);
 <@stop()>
 this->dec_backtracking();
 this->set_failedflag(false);
 return success;
}<\n>
>>

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

ruleMemoization(rname) ::= <<
<if(memoize)>
if ((this->get_backtracking()>0) && (this->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 (this->hasException())
{
 goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (this->hasFailed())
{
 <scopeClean()>
 <@debugClean()>
 return <ruleReturnValue()>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (this->get_backtracking()>0)
{
 this->set_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>
 */
<returnType()>
<name>::<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
 <if(trace)>ANTLR_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", this->LT(1), this-
>get_backtracking());<endif>
 <ruleDeclarations()>
 <ruleDescriptor.actions.declarations>
 <ruleLabelDefs()>
 <ruleInitializations()>
 <ruleDescriptor.actions.init>
 <ruleMemoization(rname=ruleName)>
 <ruleLabelInitializations()>

```



```

<if(actions.(actionScope).rulecatch)>
 try {
<else>
<if(exceptions)>
 try {
<endif>
<endif>
<@preamble()>
{
 <block>
}
<ruleCleanUp()>

<if(exceptions)>
 <(ruleDescriptor.actions.after):execAfter()>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
 if (this->hasException())
 {

 this->preporterror();
 this->precover();
 <@setErrorReturnValue()>
 }
 <if(ruleDescriptor.actions.after)>
 else
 {
 <(ruleDescriptor.actions.after):execAfter()>
 }<\n>
 <endif>
</if(actions.(actionScope).rulecatch)>
 } <actions.(actionScope).rulecatch>
 <endif>
<endif>
<endif>

 <if(trace)>ANTLR_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", this->LT(1), failed, this-
>get_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)
*/
}catch (<e.decl>) {
 <e.action>
}
>>

ruleDeclarations() ::= <<

<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(> retval(this);<\n>
<else>
<if(PARSER)>
 <name>ImplTraits::RuleReturnValueType _antlr_rule_exit(this);
<endif>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name>;
}>
<endif>
<if(memoize)>
ANTLR_MARKER <ruleDescriptor.name>_StartIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
*/
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes: { a |
<if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<if(a.initValue)><a.name> = <a.initValue>;<endif>
}>
<endif>
<if(memoize)>

```

```

<ruleDescriptor.name>_startIndex = this->index();<\n>
<endif>
<ruleDescriptor.useScopes:{it | m_<it>_stack.push(<it>Scope()); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.push(<it.name>Scope()); }; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{it |<labelType> <it.label.text>;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{it | VectorType<\const CommonTokenType> list_<it.label.text>;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelDef(); separator="\n"
>
>>

```

```

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelInitVal(); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.call_start_placeholder(); <\n>
<endif>
<endif>
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
 ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleLabels]
 :{it |<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |ANTLR_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleListLabels,
 ruleDescriptor.ruleListLabels]
 :{it | ImplTraits::IntTrieType<CommonTokenType>* list_<it.label.text>;}; separator="\n"
>
>>

```

```

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,

```

```

ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it | list_<it.label.text> = new ImplTraits::IntTrieType<CommonTokenType>(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it | delete 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 (this->get_backtracking() > 0) { this->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.call_stop_placeholder();<\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{it | m_<it>_stack.pop(); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.pop(); }; 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 == true if an exception was thrown.
 */
void <name>::m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(>>)
{
 ANTLR_UINT32 _type;
 <ruleDeclarations(>>
 <ruleDescriptor.actions.declarations>
 <lexerRuleLabelDefs(>>
 <if(trace)>System.out.println("enter <ruleName> "+(char)this->LA(1)+" line="+ this->getLine()+":"+ this->getCharPositionInLine()+ " failed="+failed+" backtracking="+this->get_backtracking());<endif>

 <if(nakedBlock)>
 <ruleMemoization(rname=ruleName)>
 <lexerRuleLabelInit(>>
 <ruleDescriptor.actions.init>

```

```

 <block><\n>
<else>
 <ruleMemoization(rname=ruleName)>
 <lexerRuleLabelInit(>
 _type = <ruleName>;

 <ruleDescriptor.actions.init>

 <block>
 this->get_lexstate()->set_type(_type);
<endif>
 <if(trace)> ANTLR_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking
 =%d\n",this->LA(1),this->getLine(),this->getCharPositionInLine(),failed,this->get_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
 */
void
<name>::mTokens()
{
 <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:{ a | <altSwitchCase(i,a)> }>
}
<@postbranch(>
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
// <fileName>:<description>

ANTLR_UINT32 alt<decisionNumber>;

alt<decisionNumber>=<maxAlt>;

<decls>
<@predecision(>
<decision>
<@postdecision(>
switch (alt<decisionNumber>)
{
<alts:{ a | <altSwitchCase(i,a)> }>
}
}
>>

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:{a | <altSwitchCase(i,a)>}>
 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()

\*/

new ANTLR\_Exception<< <name>ImplTraits, EARLY\_EXIT\_EXCEPTION, StreamType>( this->get\_rec(), "" );

<\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:{ a | <altSwitchCase(i,a)> }>
 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(altNum,alt) ::= <<
case <altNum>:
 <@prealt()>
 <alt>
 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(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions)
::= <<
<if(label)><label> = <endif> this->matchToken(<token>, &FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

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

listLabel(label,elem) ::= <<
list_<label>.push_back(<elem>);
>>

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

```

```

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = this->LA(1);<\n>
<endif>
this->matchRange(<a>,);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= this->LA(1);<\n>
<else>
<label>=(<labelType>) this->LT(1);<\n>
<endif>
<endif>
if (<s>)
{
 this->consume();
 <postmatchCode>
<if(!LEXER)>
 this->set_perror_recovery(false);
<endif>
 <if(backtracking)> this->set_failedflag(false); <\n><endif>
}
else
{
 <ruleBacktrackFailure()>
 <mismatchedSetEx()>
 <@mismatchedSetException()>
<if(LEXER)>
 this->recover();
<else>
<! use following code to make it recover inline;
 this->recoverFromMismatchedSet(&FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
 goto rule<ruleDescriptor.name>Ex;
}<\n>
>>

mismatchedSetEx() ::= <<
new ANTLR_Exception\< <name>ImplTraits, MISMATCHED_SET_EXCEPTION, StreamType>(this->get_rec(),
"");
<if(PARSER)>

```

```

this->get_exception()->set_expectingSet(NULL);
<! use following code to make it recover inline;
this->get_exception()->set_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,elementIndex) ::= <<
<if(label)>
<label>Start = this->getCharIndex();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType;
<label>->set_type(CommonTokenType::TOKEN_INVALID);
<label>->set_startIndex(<label>Start);
<label>->set_stopIndex(this->getCharIndex()-1);
<label>->set_input(this->get_input());
<else>
this->matchs(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)this->LT(1);<\n>
<endif>
this->matchAnyToken();
<checkRuleBacktrackFailure()>
>>

```

```

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

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>

```

```

<label> = this->LA(1);<\n>
<endif>
this->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) ::= <<
this->followPush(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>m_<scope:delegateName()-><endif><rule.name><(if(args)><args;
separator=", "><endif>);<\n>
this->followPop();
<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)
 ::= <<
/* <description> */
<if(label)>
{
 ANTLR_MARKER <label>Start<elementIndex> = this->getCharIndex();
 <if(scope)>m_<scope:delegateName()-><endif>m<rule.name><(if(scope)>m_<scope:delegateName()-><endif>
<if(args)>, <endif><args; separator=", ">);
 <checkRuleBacktrackFailure()>
 <label> = new CommonTokenType();
 <label>->set_type(CommonTokenType::TOKEN_INVALID);

```

```

<label>->set_startIndex(<label>Start<elementIndex>);
<label>->set_stopIndex(this->getCharIndex()-1);
<label>->set_input(this->get_input());
}
<else>
<if(scope)>m_<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)>
{
 ANTLR_UINT32 <label>Start<elementIndex>;
 <labelType> <label>;
 <label>Start<elementIndex> = this->getCharIndex();
 this->matchc(ANTLR_CHARSTREAM_EOF);
 <checkRuleBacktrackFailure()>
 <label> = new CommonTokenType();
 <label>->set_type(CommonTokenType::TOKEN_EOF);
 <label>->set_startIndex(<label>Start<elementIndex>);
 <label>->set_stopIndex(this->getCharIndex()-1);
 <label>->set_input(this->get_input());
}
<else>
 this->matchc(ANTLR_CHARSTREAM_EOF);
 <checkRuleBacktrackFailure()>
 <endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
<root:element()>

```

```

<actionsAfterRoot:element()>
<if(nullableChildList)>
if (this->LA(1)== CommonTokenType::TOKEN_DOWN) {
 this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
 <checkRuleBacktrackFailure()>
 <children:element()>
 this->matchToken(CommonTokenType::TOKEN_UP, NULL);
 <checkRuleBacktrackFailure()>
}
<else>
this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
this->matchToken(CommonTokenType::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() ::= <<
ExceptionBaseType* ex = new ANTLR_Exception\< <name>ImplTraits, FAILED_PREDICATE_EXCEPTION,
StreamType>(this->get_rec(),
"<description>");
ex->set_ruleName("<ruleName>");
<\n>
>>

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

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

{
 int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
 <edges; separator="\nelse ">
 else
 {
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;

```

```

<else>
 <ruleBacktrackFailure()>

 <newNVException()>
 goto rule<ruleDescriptor.name>Ex;

<endif>
}
}
>>

newNVException() ::= <<
ExceptionBaseType* ex = new ANTLR_Exception\< <name>ImplTraits, NO_VIABLE_ALT_EXCEPTION,
StreamType>(this->get_rec(), "<description>");
ex->set_decisionNum(<decisionNumber>);
ex->set_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> = this->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() ::= <<
ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
 /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
 */
 int LA<decisionNumber>_<stateNumber> = this->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 (<if(predicates)><predicates> && <endif><(<labelExpr>)>)
{
 <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 (this->LA(<k>))
{
<edges; separator="\n">

default:
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 <newNVEException()>
 goto rule<ruleDescriptor.name>Ex;<\n>
<endif>
}<\n>
>>

```

```

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

```

```

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

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: {it |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(this, this->get_rec(), this->get_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 ANTLR_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>]
=
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
{
<dfa.accept; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_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 */
static const ANTLR_INT32* dfa<dfa.decisionNumber>_T_empty = NULL;

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator=", ", wrap="\n", null="-1">
\};<\n>}; null = "">

/* Transition tables are a table of sub tables, with some tables
 * reused for efficiency.
 */
static const
ANTLR_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref>]; separator=", ", wrap="\n", null="NULL">
};

<@errorMethod()>

```

```

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
*/
class <name>CyclicDFA<dfa.decisionNumber> : public CyclicDFA\< <name>ImplTraits, <name> >, public
<name>Tokens
{
public:
typedef CyclicDFA\< <name>ImplTraits, <name> > BaseType;
typedef BaseType::ContextType CtxType;

private:
<if(dfa.specialStateSTs)>
//to maintain C-Target compatibility, we need to make some of ctx functions look like member funcs
CtxType* m_ctx;
<endif>

public:
<name>CyclicDFA<dfa.decisionNumber>(ANTLR_INT32 decisionNumber
, const ANTLR_UCHAR* description
, const ANTLR_INT32* const eot
, const ANTLR_INT32* const eof
, const ANTLR_INT32* const min
, const ANTLR_INT32* const max
, const ANTLR_INT32* const accept
, const ANTLR_INT32* const special
,
const ANTLR_INT32* const *const transition)
:BaseType(decisionNumber, description, eot, eof, min, max, accept,
special, transition)
{
<if(dfa.specialStateSTs)>
m_ctx = NULL;
<endif>
}

<if(dfa.specialStateSTs)>
ANTLR_UINT32 LA(ANTLR_INT32 i)
{
return m_ctx->LA(i);
}

template<typename PredType>
bool msynpred(PredType pred)
{
return m_ctx->msynpred(pred);
}

<if(PARSER)>

```

```

const CtxType::CommonTokenType* LT(ANTLR_INT32 k)
{
 return m_ctx->LT(k);
}
<endif>

ANTLR_INT32 specialStateTransition(CtxType * ctx, RecognizerType* recognizer, IntStreamType* is,
ANTLR_INT32 s)
{
 ANTLR_INT32 _s;

 m_ctx = ctx;
 _s = s;
 switch (s)
 {
 <dfa.specialStateSTs:{state |
 case <i0>:

 <state>}; separator="\n">
 }
 <if(backtracking)>
 if (ctx->get_backtracking()
 > 0)
 {
 ctx->set_failedflag(true);
 return -1;
 }
 <endif>
 ExceptionBaseType* ex = new ANTLR_Exception<< <name>ImplTraits, NO_VIABLE_ALT_EXCEPTION,
StreamType>(recognizer, "<dfa.description>");
 ex->set_decisionNum(<dfa.decisionNumber>);
 ex->set_state(_s);
 <@noViableAltException()>
 return -1;
 }
 <endif>
};

static <name>CyclicDFA<dfa.decisionNumber> cdfa<dfa.decisionNumber>(
 <dfa.decisionNumber>, /* Decision number of this dfa */
 /* Which decision this represents: */
 (const ANTLR_UCHAR*)<dfa.description>",
 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) ::= <<
{
 ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;<\n>
 ANTLR_MARKER index<decisionNumber>_<stateNumber>;<\n>

 LA<decisionNumber>_<stateNumber> = ctx->LA(1);<\n>
 <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
 index<decisionNumber>_<stateNumber> = ctx->index();<\n>
 ctx->rewindLast();<\n>
 <endif>
 s = -1;
 <edges; separator="\nelse ">
 <if(semPredState)> <! return input cursor to state before we rewound !>
 ctx->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 (<if(predicates)>(<predicates>) && <endif>(<labelExpr>))
{
 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) ::= "(<operands:{o|(<o>)}; separator=\\|\\>)"

notPredicate(pred) ::= "!(<evalPredicate(pred,{})>)"

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

evalSynPredicate(pred,description) ::= "this->msynpred(antlr3::ClassForwarder\<<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) ::= "this->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) ::= "((this->LA(<k>) >=
<lower>) && (this->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().
 */
struct <scopeStruct(sname=scope.name,...)>
{

```

```

/* =====
 * Programmer defined variables...
 */
<scope.attributes:{it |<it.decl>;}>
separator="\n">

/* End of programmer defined variables
 * =====
 */
};

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeDef(scope) ::=
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes)>

StackType\< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name)>;

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope)
*/
StackType\< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name,...)>;

<endif>
>>

```



```

scopeStruct(sname) ::= <<
<sname>Scope
>>

scopeStack(sname) ::= <<
m_<sname>_stack
>>

returnStructName(r) ::= "<r.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>
bool
<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(d) ::= <<
<if(d.label)><d.label><else>g<d.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) ::= <<
= <<TypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label)
::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
typedef <ruleLabelType(referencedRule=label.referencedRule)> RETURN_TYPE_<label.label.text>;<\n>
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::= "<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>TreeType*<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(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>

<if(!TREE_PARSER)>
struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()> : public
<name>ImplTraits::RuleReturnValueType
{
public:
typedef <name>ImplTraits::RuleReturnValueType BaseType;
<else>
struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
{
<name>ImplTraits::<recognizer.ASTLabelType>
start;
<name>ImplTraits::<recognizer.ASTLabelType> stop;
<endif>
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{it |<it.type> <it.name>;}; separator="\n">

<if(!TREE_PARSER)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>()
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>(BaseParserType* parser)

```

```

 : BaseType(parser)
 {
 }

 <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>(const
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n)
 : BaseType(n)
 <if(ruleDescriptor.returnScope.attributes)>
 , <ruleDescriptor.returnScope.attributes: {it | <it.name>(n.<it.name>) } ; separator=",">
 <endif>
 {
 }

 <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&
operator=(const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&
n)
 {
 BaseType::operator=(n);
 <ruleDescriptor.returnScope.attributes: {it | <it.name> = n.<it.name>; } ; separator="\n">
 return *this;
 }
<else>
 <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>(const
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n)
 <if(ruleDescriptor.returnScope.attributes)>
 <ruleDescriptor.returnScope.attributes: {it | <it.name>(n.<it.name>) } ; separator=",">
 <endif>
 {
 start = n.start;
 stop = n.stop;
 }

 <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&
operator=(const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n)
 {
 start = n.start;
 stop = n.stop;

 <ruleDescriptor.returnScope.attributes: {it | <it.name> = n.<it.name>; } ; separator="\n">
 return *this;
 }

<endif>

};<\n><\n>

<endif>
<endif>

```

```

>>

parameterScope(scope)
 ::= <<
<scope.attributes:{it |<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)>
 m_<scope>_stack.at(m_<scope>_stack.size()-<negIndex>-1).<attr.name>
<else>
<if(index)>
 m_<scope>_stack.at(<index>).<attr.name>
<else>
 m_<scope>_stack.peek().<attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
 m_<scope>_stack.at(m_<scope>_stack.size()-<negIndex>-1).<attr.name> = <expr>;
<else>
<if(index)>
 m_<scope>_stack.at(<index>).<attr.name> = <expr>;
<else>
 m_<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>->getText()"
tokenLabelPropertyRef_type(scope,attr)
::= "<scope>->get_type()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>->get_line()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>->get_charPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>->get_channel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>->get_tokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>->get_tree()"
tokenLabelPropertyRef_int(scope,attr) ::= "<name>ImplTraits::ConvertToInt32(<scope>->getText())"

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)>
(this->get_strstream()->toStringSS(<scope>.start, <scope>.start))
<else>
(this->get_strstream()->toStringTT(<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>->get_type())"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"

// 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)>
this->get_input()->toStringSS(this->get_adaptor()->getTokenStartIndex(retval.start), this->get_adaptor()-
>getTokenStopIndex(retval.start))
<else>
this->get_strstream()->toStringTT(retval.start,
this->LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "this->getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "this->get_state()->get_tokenStartLine()"
lexerRulePropertyRef_pos(scope,attr) ::= "this->get_state()->get_tokenStartCharPositionInLine()"
lexerRulePropertyRef_channel(scope,attr) ::= "this->get_state()->get_channel()"
lexerRulePropertyRef_start(scope,attr) ::= "this->get_state()->get_tokenStartCharIndex()"
lexerRulePropertyRef_stop(scope,attr) ::= "(this->getCharIndex()-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "(<name>ImplTraits::ConvertToInt32(<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 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(bitsetName, words64, traits) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR_BITWORD <bitsetName>_bits[] = { <words64:{it |ANTLR_UINT64_LIT(<it>)}; separator=", "> };
static <traits>::BitsetListType <bitsetName>(<bitsetName>_bits, <length(words64)>);
>>

codeFileExtension() ::=
".cpp"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Cpp/Cpp.stg

```

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

/\*

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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.

\*/

finishedBacktracking(block) ::= <<

<if(!ruleDescriptor.isSynPred)>

<if(backtracking)>

if



```

<actions.(actionScope).synpredgate>:
 <block>
<else>
<block>
<endif>
<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,terminalOptions={}) ::= <<
<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,terminalOptions={}) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

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

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

```

```

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<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,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={ <finishedBacktracking({ self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})>}, ...)>
%>

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

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

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

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<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(label, {<label>.tree})>
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={ })
::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

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

wildcardRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)

```

```

})>
>>

createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node>(<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.tree, retval.start, retval.stop)
})>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/ASTParser.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, ...

\*/

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,terminalOptions={ }) ::= <<
 _last = self.input.LT(1)

```

```

<super.tokenRef(...)>
>>

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

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
 _last = self.input.LT(1)
 <super.tokenRef(...)>
 <if(!rewriteMode)>
 <finishedBacktracking({
 <if(terminalOptions.node)>
 <label>_tree = <terminalOptions.node>(<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,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
_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,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree
= self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<endif>
}, ...)>
>>

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

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)

```



```

<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<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(label, {<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(label, {<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.ruleRefRootTrack(...)>
>>

/** ^(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,scope,terminalOptions={ }) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(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/1001035969_1646171611.67/0/antlr-3-5-sources-
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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.
*/

```

```

@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,terminalOptions) ::= <<
<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,terminalOptions) ::= "<super.tokenRef(...)>"

```

```

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

```

```

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

```

```

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

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,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,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>};,...)>
>>

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

matchSetBang(s,label,elementIndex,terminalOptions,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,terminalOptions,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(token,label,elementIndex,terminalOptions) ::= <<
<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(token,label,elementIndex,terminalOptions) ::= "<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,terminalOptions)
::= <<
<if(terminalOptions.node)>
<terminalOptions.node>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
: {it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<if(backtracking)>
}<\n>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/C/ASTParser.stg

```

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```

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```

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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@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 Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.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.Template);
<else>
((TokenRewriteStream)input).Replace(
((IToken)retval.Start).TokenIndex,
input.LT(-1).TokenIndex,
retval.Template);
<endif>
>>
```

```
rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>) {
 retval.Template = <it.alt>;
}<\n>
<else>
{
 retval.Template = <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/1001035969_1646171611.67/0/antlr-3-5-sources-
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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.
 */

@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) !>
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
override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override 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 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 !>
<actions.(actionScope).ctorModifier; null="public">
<name>(<inputStreamType> input)
: this(input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState())
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>(<inputStreamType> input, int port,
RecognizerSharedState state)
: base(input, state)
{
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>> }>);}; separator="\n">
<parserCtorBody()>
<@finally()>
}<\n>
>>

ctorForProfilingRootGrammar() ::= <<

```

```

<! bug: can't use <@super.members()> cut-n-paste instead !>
<actions.(actionScope).ctorModifier; null="public"> <name>(<inputStreamType> input)
: this(input, new Profiler(null), new RecognizerSharedState())
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>(<inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state)
: base(input, dbg, state)
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:

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

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

ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>(<inputStreamType> input, IDebugEventListener dbg
)
<@superClassRef>: base(input, dbg, new RecognizerSharedState()
)<@end>
{
<if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<grammar.directDelegates:{ g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{ g|, <g:delegateName()>>);}; separator="\n">
<parserCtorBody()>
<@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()>"

/*
* Many of the following rules were merged into CSharp2.stg.
*/

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

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();

```

```

>>
//@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.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);"

```

```

//@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/1001035969\_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/CSharp2/Dbg.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.
*/

```

```

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;
>>

@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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
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group Dbg;

```

/\*

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\*/

```
@parserBody.mixins() ::= <<
include ANTLR3::<if(profile)>Profile<else>Debug<endif>::ParserEvents
>>
```

```
@parserBody.additionalMembers() ::= <<
<if(grammar.grammarIsRoot)>
RULE_NAMES = [
:invalid_rule, <grammar.allImportedRules:{rST|:<rST.name>}; wrap="\n ", separator=", ">
].freeze
<endif>
>>
```

```
@rule.body() ::= <<
in_rule(grammar_file_name, "<ruleName>") do
@debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
```

```

<@super.body()>

@debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
end
>>

// Common debug event triggers used by region overrides below
enterSubRule() ::= <<
in_subrule(<decisionNumber>) do<\n>
>>

exitSubRule() ::= <<
end<\n>
>>

enterDecision() ::= <<
in_decision(<decisionNumber>) do<\n>
>>

exitDecision() ::= <<
end<\n>
>>

enterAlt(n) ::= <<
in_alternative(<n>)<\n>
>>

// Region overrides that tell various constructs to add debugging triggers
@block.body() ::= <<
in_subrule(<decisionNumber>) do
 <@super.body()>
end
>>

// @blockBody.predecision() ::= "<enterSubRule()>"
// @blockBody.postdecision() ::= "<exitDecision()>"
// @blockBody.postbranch() ::= "<exitSubRule()>"
@blockBody.decision() ::= <<
in_decision(<decisionNumber>) do
 <@super.decision()>
end

```

>>

```
@ruleBlock.decision() ::= <<
in_decision(<decisionNumber>) do
 <@super.decision()>
end<\n>
>>
```

```
@ruleBlockSingleAlt.preal()
::= "<enterAlt(n={1})>"
```

```
@blockSingleAlt.preal() ::= "<enterAlt(n={1})>"
```

```
@positiveClosureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
 <@super.loopBody()>
end
>>
```

```
@positiveClosureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
 <@super.decisionBody()>
end
>>
```

```
@positiveClosureBlockLoop.earlyExitException() ::= <<
@debug_listener.recognition_exception(eee)
>>
```

```
@closureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
 <@super.loopBody()>
end
>>
```

```
@closureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
 <@super.decisionBody()>
end
>>
```

```

@altSwitchCase.preatl() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase

element(e) ::= <<
@debug_listener.location(<e.line>, <e.pos>) // e is arg of element
<super.element(e)>
>>

@matchSet.mismatchedSetException() ::= "@debug_listener.recognition_exception(mse)"

@dfaState.noViableAltException() ::=
<<
nvae = NoViableAlternative("<description>", <decisionNumber>, <stateNumber>)
@debug_listener.recognition_exception(nvae)
raise(nvae)<\n>
>>

@dfaStateSwitch.noViableAltException() ::= <<
nvae = NoViableAlternative("<description>", <decisionNumber>, <stateNumber>)
@debug_listener.recognition_exception(nvae)
raise(nvae)<\n>
>>

dfaDecision(decisionNumber,description) ::= <<
begin
@state.cyclic_decision = true
<super.dfaDecision(...)>
rescue ANTLR3::Error::NoViableAlternative => nvae
@debug_listener.recognition_exception(nvae)
raise
end
>>

@cyclicDFA.errorMethod() ::= <<
def error(nvae)
@recognizer.debug_listener.recognition_exception(nvae)
super
end
>>
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
predicate?("<description>") { <pred> }
>>

```



Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Ruby/Dbg.stg

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\*/

/\*\* The API version of the runtime that recognizers generated by this runtime

\* need.

\*/

apiVersion() ::= "1"

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"

// The Java version of Boolean returns "true" and "false", so they map to themselves here.

booleanLiteral ::= [

    "True": "true",

    "False": "false",

    "true": "true",

    "false": "false",

    default: "false"

]

```

/**
 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 | <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, filterMode,
 labelType="CommonToken", superClass="Lexer") ::= <<
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
 <scopes: {it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>> }>

 grammarFileName = "<fileName>"
 api_version = <apiVersion()>

 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.directDelegates:
 {g|<g.delegates: {h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>};
separator="\n">}; separator="\n">
 <grammar.delegators:
 {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">

```

```

<last(grammar.delegators):
{g|self.gParent = <g.delegateName(>}; separator="\n">
 self.delegates = [<grammar.delegates: {g|self.<g.delegateName(>}; separator = ", ">]

<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 self.makeEOFToken()

 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?
 super(<grammar.recognizerName>, self).memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
 if self._state.backtracking > 1:
 return super(<grammar.recognizerName>, self).alreadyParsedRule(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, labelType, members,
 rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
<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:{it|<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>>>

<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

<rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>>>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
 grammarFileName = "<fileName>"
 api_version = <apiVersion()>
 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:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>>>
<rules:{it | <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|<g.delegates:{h|self.<h.delegateName()> = self.<g.delegateName()>.<h.delegateName()>;
separator="\n">}; separator="\n">}; separator="\n">

```

```

 <last(grammar.delegates):
 {g|self.gParent = self.<g:delegateName(>}; separator="\n">
 self.delegates = [<grammar.delegates: {g|self.<g:delegateName(>}; separator = ", ">]

<@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. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

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

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

<bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it |
<it>};separator=", ">])<n>>

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(>):
<\> <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName(>.<ruleDescriptor.name><(if(ruleDescriptor.parameterScope)
><ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "><endif>)

>>

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

>>

/** 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, filterMode, labelType={ <ASTLabelType> }, ASTLabelType="Object",
 superClass={ <if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif> },
 members={ <actions.treeparser.members> },
 init={ <actions.treeparser.init> }
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, "TreeNodeStream", superClass,
 labelType, members, "Node",
 filterMode, init, ASTLabelType)>
>>

/**
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()):
 <ruleLabelDefs()>
<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>):
<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>
<elseif(ruleDescriptor.returnScope)>
<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: { it |
self.<it>_stack.append(<it>_scope()); separator="\n">
<ruleDescriptor.ruleScope: { it | self.<it.name>_stack.append(<it.name>_scope()); separator="\n">
>>

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

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,

```

```

ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | <it.label.text> = None }; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: {it | list_<it.label.text> = None }; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: {it | <it.label.text> = None }; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]

: {it | <it.label.text> = None }; separator="\n"
>
<ruleDescriptor.charLabels: {it | <it.label.text> = None }; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | 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()>):
<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:{ a | <altSwitchCase(i, a)>}; 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:{ a | <altSwitchCase(i, a)>}; separator="\nel">
>>

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:{ a | <altSwitchCase(i, a)>}; 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:{a | <altSwitchCase(i,
a)>}; separator="\nel">
 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(altNum,alt) ::= <<
if alt<decisionNumber> == <altNum>:
 <@prealt()>
 <alt>
>>

/** 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(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)><label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, 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>,)
>>

/**
For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<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(label, label)>
>>
```

```
/** Match a string literal */
```

```
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label>StartLine<elementIndex>
= self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.match(<string>)
<endif>
>>
```

```
wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny(self.input)
>>
```

```
wildcardAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<wildcard(...)>
<listLabel(label,label)>
>>
```

```
/** Match . wildcard in lexer */
```

```
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchAny()
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, 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(rule,label,elementIndex,args,scope)>
<listLabel(label, 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>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
input=self.input,
type=INVALID_TOKEN_TYPE,
channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>,
stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<

```

```

<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex>
= self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.match(EOF)
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name) ::= "$<name> = $<src>.<name>"

/** 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(pred, description)>):
 <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:{it | 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) ::= "<operands; separator=\" or \">"

notPredicate(pred) ::= "not (<evalPredicate(pred, {}>)"

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)>
<if(scope.attributes)>
class <scope.name>_scope(object):
 def __init__(self):
 <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>

```

```

<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
 def __init__(self):
 <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>

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

/**
 Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= "<r.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()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
 def __init__(self):
 super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

 <if(scope)><scope.attributes:{it | self.<it.decl> = None}; separator="\n"><endif>
 <@ruleReturnInit()>

 <@ruleReturnMembers()>

<endif>
>>

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

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>:
 pass
 <action>

<else>
if <actions.(actionScope).synpredgate>:
 pass
 <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_value()
```

```
::= "True"
```

```
false_value() ::= "False"
```

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

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/Python.stg
```

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

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2006 Kay Roepke 2010 Alan Condit
```

```
All rights reserved.
```

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```
*/
```

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

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/Dbg.stg
```

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

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2005-2006 Terence Parr
```

```
All rights reserved.
```

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\*/

/\*\* Template subgroup to add template rewrite output

\* If debugging, then you'll also get STDbg.stg loaded.

\*/

```
@returnScopeInterface.memVars() ::= <<
```

```
<@super.memVars()>
```

```
/* ST returnInterface.memVars */
```

```
ST *st;
```

```
>>
```

```
@returnScopeInterface.properties() ::= <<
```

```
<@super.properties()>
```

```
/* ST returnScope.properties */
```

```
@property (retain, getter=getST, setter=setST:) ST *st;
```

```
>>
```

```
@returnScopeInterface.methodsDecl() ::= <<
```

```
<@super.methodsDecl()>
```

```
/*
```

```
ST AST returnScopeInterface.methodsDecl */
```

```
- (id) getTemplate;
```

```
- (NSString *) toString;
```

```
- (NSString *) description;
```

```
>>
```

```

@returnScopeInterface() ::= <<
/* ST returnScopeInterface */
@interface <returnScopeInterface.name> : ReturnScope {
<returnScopeInterface.memVars()>
}
<returnScopeInterface.properties()>

<returnScopeInterface.methods()>
@end
>>

@returnScopeImplementation.synthesize() ::= <<
<@super.synthesize()>
/* ST returnScope.synthesize */
@synthesize st;
>>

@returnScopeImplementation.methods() ::= <<
<@super.methods()>
/* ST returnScope.methods */
- (id) getTemplate { return st; }
- (NSString *) toString { return st==nil?nil:[st toString]; }
- (NSString *) description { [self toString]; }
>>

@returnScopeImplementation() ::= <<
@implementation <returnScopeImplementation.name>
<returnScopeImplementation.synthesize()>

<returnScopeImplementation.methods()>
@end
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers()
::= <<
<@super.ruleReturnMembers()>
/* ST returnScope.ruleReturnMembers -- empty */
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<

```

```

<@super.properties(>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

```

```

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl(>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

```

```

@genericParser.synthesize() ::= <<
<@super.synthesize(>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

```

```

@genericParser.methods() ::= <<
<@super.methods(>
/* ST genericParser.methods */

```

```

- (STGroup *)getTemplateLib
{
 return templateLib;
}

```

```

- (void) setTemplateLib:(STGroup
*)aTemplateLib
{
 templateLib = aTemplateLib;
}

```

```

>>

```

```

@genericParser.members() ::= <<
<@super.members(>
STGroup *templateLib = [STGroup newSTGroup:@"<name>Templates"];

```

```

- (STGroup *) getTemplateLib
{
 return templateLib;
}

```

```

- (void) setTemplateLib:(STGroup *) templateLib
{

```

```

 this.templateLib = templateLib;
}

/** allows convenient multi-value initialization:
 * "new STAttrMap().put(...).put(...)"
 */
/* REPLACE THIS STATIC CLASS
static class STAttrMap extends HashMap {
- (STAttrMap *) setObject:(id)aValue forKey:(NS*)String attrName
{
 [super setObject:value forKey:attrName];
 return self;
}
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName
{
 [super setObject:[NSNumber numberWithInt:value] forKey:attrName];
 return self;
}
}
*/
>>

@STAttrMap() ::= <<
/* ----- ST start STAttrMap ----- */
<@STAttrMap.interface()>
<@STAttrMap.implementation()>
/* ----- ST end
STAttrMap ----- */
>>

@STAttrMap.interface() ::= <<
/* ----- ST start STAttrMap.interface ----- */
@interface STAttrMap : HashMap {
/* <@STAttrMap.memVars()> */
 STGroup *templateLib;
}

/* <@STAttrMap.properties()> */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* <@STAttrMap.methodsDecl()> */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
@end
/* ----- ST end STAttrMap.interface ----- */
>>

```

```

@STAttrMap.implementation() ::= <<
/* ----- ST start STAttrMap.implementation ----- */
/** allows convenient multi-value initialization:
 * "new STAttrMap().put(...).put(...)"
 */
@implementation STAttrMap
@synthesize templateLib;

<@STAttrMap.methods()>
@end
/* ----- ST end STAttrMap.implementation
----- */
>>

@STAttrMap.memVars() ::= <<
/* ----- ST start STAttrMap.memVars ----- */
 STGroup *templateLib;
/* ----- ST end STAttrMap.memVars ----- */
>>

@STAttrMap.properties() ::= <<
/* ----- ST start STAttrMap.properties ----- */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* ----- ST end STAttrMap.properties ----- */
>>

@STAttrMap.methodsDecl() ::= <<
/* ----- ST start STAttrMap.methodsDecl ----- */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
/* ----- ST end STAttrMap.methodsDecl ----- */
>>

@STAttrMap.methods() ::= <<
/* ----- ST start STAttrMap.methods ----- */
- (id) init
{
 self = [super initWithLen:16];
 if (self
 != nil) {
 templateLib = [STGroup newSTGroup:"<name>Templates"];
 }
 return self;
}
}

```

```

- (STAttrMap *) setObject:(id)aValue forKey:(NSString *)aAttrName
{
 [super setObject:aValue forKey:aAttrName];
 return self;
}

- (STAttrMap *) setObjectWithInt:(NSInteger)aValue forKey:(NSString *)aAttrName
{
 [super setObject:[NSNumber numberWithInt:aValue] forKey:aAttrName];
 return self;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
 templateLib = aTemplateLib;
}

- (STGroup *)getTemplateLib
{
 return templateLib;
}
/* ----- ST end STAttrMap.methods ----- */
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ST ruleRefAndListLable */
<ruleRef(...)>
<listLabel(elem=[label getTemplate,...]>
>>

rewriteTemplate(alts) ::= <<
/* ----- ST start rewriteTemplate ----- */
// 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>
/* ----- ST end rewriteTemplate ----- */
>>

replaceTextInLine() ::= <<

```

```

/* ----- ST start replaceTextInLine ----- */
<if(TREE_PARSER)>
[[(TokenRewriteStream *)input getTokenStream]
 replaceFromIndex: [[input getTreeAdaptor] getTokenStartIndex:retval.start]
 ToIndex: [[input getTreeAdaptor] getTokenStopIndex:retval.start]
 Text:retval.st];
<else>
[[(TokenRewriteStream *)input)
 replaceFromIndex: [((CommonToken *)retval.start) getTokenIndex]
 ToIndex: [[input LT:-1] getTokenIndex]
 Text:retval.st];
<endif>
/* ----- ST end replaceTextInLine ----- */
>>

rewriteTemplateAlt() ::= <<
/* ----- ST start rewriteTemplateAlt ----- */
/* ST <it.description>
*/
<if(it.pred)>
if (<it.pred>) {
 retval.st = <it.alt>;
}<\n>
<else>
{
 retval.st = <it.alt>;
}<\n>
<endif>
/* ----- ST end rewriteTemplateAlt ----- */
>>

rewriteEmptyTemplate(alts) ::= <<
nil;
>>

/** 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) ::= <<
/* ----- ST start rewriteExternalTemplate ----- */
[templateLib getInstanceOf:@"<name>"
<if(args)>[[STAttrMap newSTAttrMap] <args:{a | setObject:<a.value> forKey:@"<a.name>"}]><endif>]
/* ----- ST end rewriteExternalTemplate ----- */
>>

```



```

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
/* ----- ST start rewriteIndirectTemplate ----- */
[templateLib
 getInstanceOf:<expr>
 <if(args)> [[STAttrMap newSTAttrMap]<args:{ a | setObject:<a.value> forKey:@"<a.name>"}>]
 <else>]<endif>
/* ----- ST end rewriteIndirectTemplate ----- */
>>

```

```

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
/* ----- ST start rewriteInlineTemplate ----- */
STGroup *templateLib;
templateLib.templates = [STAttrMap newSTAttrMap];
<if(args)> [templateLib.templates <args:{ a | setObject:<a.value> forKey:@"<a.name>"};><endif>
[ST newST:templateLib template:@"<template>"];
/* ----- ST end rewriteInlineTemplate ----- */
>>

```

```

/** plain -> {foo} action */
rewriteAction(action) ::= <<
/* ----- ST start rewriteAction ----- */
<action>
/* ----- ST end rewriteAction ----- */
>>

```

```

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
/* ----- ST start actionSetAttribute -----
*/
[[ST attributes] setObject:<expr> forKey:@"<attrName>"];
<![<st> setAttribute:<expr> name:@"<attrName>"];!>
/* ----- ST end actionSetAttribute ----- */
>>

```

```

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
/* ----- ST start actionStringConstructor ----- */
[ST newSTWithTemplate:<stringExpr>]
/* ----- ST end actionStringConstructor ----- */
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ST.stg  
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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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<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,terminalOptions,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,terminalOptions,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

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

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

```

```

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.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>
>>

```

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Delphi/AST.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.

\*/

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

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/ASTDbg.stg

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```
*/
```

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/ObjCTarget.java

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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,

...

\*/

/\*\* 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,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
>>

```

```

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (BACKTRACKING ==0) {<endif>
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>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,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (BACKTRACKING == 0) {<endif>
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>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,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions)
::= <<
_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,terminalOptions,elementIndex,postmatchCode) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.matchSet(postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (BACKTRACKING == 0) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = <terminalOptions.node>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,terminalOptions,elementIndex,postmatchCode,treeLevel="0")
 ::= <<
 <matchSet(...)>
 <noRewrite()> <! set return tree !>
 >>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.matchSet(...)>
 >>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
 <super.matchSet(postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(terminalOptions.node)>
 <label>_tree = <terminalOptions.node>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.ruleRefRuleRootTrack(...)>
>>

/** ^(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,terminalOptions,scope) ::= <<
 <if(terminalOptions.node)>
 <terminalOptions.node>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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/ASTTreeParser.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.

```

*/

@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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

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

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

```

```

// 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,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}, ...)>
>>

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

matchSetBang(s,label,elementIndex,terminalOptions,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,terminalOptions,elementIndex,debug)
::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);
<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(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

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

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<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(token,label,elementIndex,terminalOptions) ::= <<
<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,terminalOptions) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>)
<endif>
%>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg

```

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```

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```

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\*/

```
@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();
```

```
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;
@Override
public <ASTLabelType> getTree() { return tree; }
>>
```

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

```
ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<if(!ruleDescriptor.isSynPred)>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
```

```

<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<if(ruleDescriptor.supportsLabelOptimization)>
<ruleDescriptor.allTokenRefsInRewrites
: {it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");};
separator="\n">
<ruleDescriptor.allRuleRefsInRewrites
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
<else>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
<endif>
<endif>
>>

/** 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 && !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// T r a c k i n
g R u l e E l e m e n t s

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<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,terminalOptions={}) ::= <<

```

```

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

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

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<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(label, {<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(label, {<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>) {
<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

```

```

: {it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
: {it
| RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
separator="\n"
>
<referencedRuleLabels
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.getTree():null)};
separator="\n"
>
<referencedRuleListLabels
: {it | 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,args,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);
>>

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

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

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

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

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

rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,args,terminalOptions)>);
>>

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(token,args,terminalOptions)>,

```



```

root_<treeLevel>;
>>

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

/**
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());
>>

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

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

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

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

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

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

```

```

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

```

```

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

```

```

createImaginaryNode(tokenType,args,terminalOptions={ }) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
%>

```

```

createRewriteNodeFromElement(token,args,terminalOptions={ })
::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/AST.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 : Python by code generator.

\*/

group ASTDbg;

astAccessor() ::= <<

def setTreeAdaptor(self, adaptor):

<if(grammar.grammarIsRoot)>

self.\_adaptor = DebugTreeAdaptor(self.dbg, adaptor)

<else>

self.\_adaptor = adaptor # delegator sends dbg adaptor

<endif>

<grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(self.\_adaptor)}>

def

getTreeAdaptor(self):

return self.\_adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)<\n>

>>

createListenerAndHandshake() ::= <<

proxy = DebugEventSocketProxy(self,

adaptor=<if(TREE\_PARSER)>self.input.getTreeAdaptor(<else>self.\_adaptor<endif>,

debug=debug\_socket, port=port)

self.setDebugListener(proxy)

self.adaptor.setDebugListener(proxy)

self.input.setDebugListener(proxy)

#self.set<inputStreamType>(Debug<inputStreamType>(self.input, proxy))

proxy.handshake()

>>

```
@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/ASTDbg.stg
```

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```

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```
*/
```

```
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
]
```

```

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
 "True":"true",
 "False":"false",
 "true":"true",
 "false":"false",
 default:"false"
]

/**
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>
@SuppressWarnings("all")
<recognizer>

>>

lexer(grammar, name, tokens, scopes,

```

```

rules, numRules, filterMode, labelType="CommonToken",
 superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
 <tokens:{it | public static final int <it.name>=<it.type>;}; separator="\n">
 <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(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 <superClass>[] getDelegates() {
 return new <superClass>[] {<grammar.delegates: {g|<g.delegateName()>; separator = ", ">;
 }
 }

 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()>;}>
 }
 @Override 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(); separator="\n\n"><! 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 Token nextToken() {
while (true) {
if (input.LA(1)==CharStream.EOF) {
Token eof = new CommonToken(input,Token.EOF,
Token.DEFAULT_CHANNEL,
input.index(),input.index());
eof.setLine(getLine());
eof.setCharPositionInLine(getCharPositionInLine());
return eof;
}
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);
 }
}

@Override
public void memoize(IntStream input,
 int ruleIndex,
 int ruleStartIndex)
{
 if (state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
}

@Override
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,
 labelType, members, rewriteElementType,
 filterMode, ASTLabelType="Object") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<if(grammar.grammarIsRoot)>
 public static final String[] tokenNames = new String[] {
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ", wrap="\n\t">
 };
<endif>
 <tokens:{it |public static final int <it.name>=<it.type>;}; separator="\n">

 // delegates
 <grammar.delegates: {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 public <superClass>[] getDelegates() {
 return new <superClass>[] {<grammar.delegates: {g|<g.delegateName()>;}; separator = ", ">};
 }
}

```



```

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

 <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(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.delegateName(>.delegateName(>.<g.delegateName(>};
 separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName(>};}>
 }
 <@end>

 @Override public String[] getTokenNames() { return
 <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
 @Override 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)> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(>)
 throws <ruleDescriptor.throwsSpec; separator=", "> { <if(ruleDescriptor.hasReturnValue)>return
 <endif><ruleDescriptor.grammar:delegateName(>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)><ru
 leDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "><endif>); \}}; separator="\n">

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

 <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber>

```

```

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

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>}; separator="\n">
}
>>

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(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, "TokenStream", superClass,
 labelType, members, "Token",
 false, ASTLabelType)>
>>

/**
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, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
members={<actions.treeparser.members>}
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, "TreeNodeStream", superClass,
 labelType, members, "Node",
 filterMode, ASTLabelType)>
>>

/** 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(>>) throws
<ruleDescriptor.throwsSpec:{x|<x>}; separator=", "> {
 <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>)) {
<returnStatement(((<ruleReturnValue(>)))> }
<endif>
>>

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

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) {state.failed=true;
<returnStatement(((<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>
<if(isPredefinedRewriteRule.(ruleName) && filterMode && buildAST)>
@Override
<endif>
public final <returnType(ruleDescriptor)> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(>) throws
<ruleDescriptor.throwsSpec:{x|<x>}; separator=", "> {
<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()>
 }
<endif>
<endif>
<endif>
 finally {
 // do for sure before leaving
 <if(trace)>traceOut("<ruleName>",
<ruleDescriptor.index>);<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 }
 <@postamble()>
 <returnStatement(({<ruleReturnValue()>}), false)>
}
// $ANTLR end "<ruleName>"
>>

returnStatement(returnValue, force=true) ::= <%
<if(!isEmptyString.(returnValue))>
 return <returnValue>;
<elseif(force)>
 return;
<endif>
%>

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

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
retval.start = input.LT(1);
<elseif(ruleDescriptor.returnScope)>
<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 |<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{it
|<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

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

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

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{it |<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{it
|int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{it |List<Object> 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);
<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())
throws RecognitionException {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<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 {
// do for sure before leaving
<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>
}
>>

// 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:{ a | <altSwitchCase(i,a)>}>
}
<@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:{a | <altSwitchCase(i,a)>}>
}
>>

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>:
while (true) {
 int alt<decisionNumber>=<maxAlt>;
 <@predecision(>
 <decision>
 <@postdecision(>
 switch (alt<decisionNumber>) {
 <alts:{a | <altSwitchCase(i,a)>}>
 default :
 if (cnt<decisionNumber> >= 1) break loop<decisionNumber>;
 <ruleBacktrackFailure(>
 EarlyExitException eee = new EarlyExitException(<decisionNumber>, input);
 <@earlyExitException(>
 throw 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 (true) {
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i,a)>}>
default :
break 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(altNum,alt)
 ::= <<
case <altNum> :
<@prealt()>
<alt>
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(e) ::= <<
<@prematch()>
<e.el>
>>
```

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

```
/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label,
label)>
>>
```

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

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

```

<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

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

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);
<else>
<label>=<castToLabelType("input.LT(1)")>;
<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>
}
>>

matchRuleBlockSet ::= matchSet

```

```

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

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
int <label>Start = getCharIndex();
match(<string>); <checkRuleBacktrackFailure()>
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={ })
::= <<
<if(label)>
<label>=<castToLabelType("input.LT(1)")>;
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<wildcard(...)>
<listLabel(label, label)>
>>

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

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, 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=", ">);
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, 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();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<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);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args;
separator=", ">); <checkRuleBacktrackFailure()>
<endif>
>>

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

```

```

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

//
used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> |<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** 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(pred,description)>)) {

```

```

<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>);
<edges; separator="\nelse ">
<if(!isTrue.(last(edges).labelExpr) && (!last(edges).predicates))>
else {
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<(nvaExceptionWrapperMap.(k))({NoViableAltException nvae =
new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()>
throw nvae;})>
<endif>
}
<endif>
>>

nvaExceptionWrapperMap ::= [
"1":"wrapNvaExceptionForK1",
"2":"wrapNvaExceptionForK2",
default:"wrapNvaExceptionForKN"
]

wrapNvaExceptionForK1(exceptionCode)
::= <<
<exceptionCode>
>>

wrapNvaExceptionForK2(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
input.consume();
<exceptionCode>
} finally {
input.rewind(nvaeMark);
}
>>

wrapNvaExceptionForKN(exceptionCode) ::= <<
int nvaeMark = input.mark();

```



```

try {
 for (int nvaeConsume = 0; nvaeConsume <<k> - 1; nvaeConsume++) {
 input.consume();
 }
 <exceptionCode>
} finally {
 input.rewind(nvaeMark);
}
>>

/** 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 ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
 alt<decisionNumber>=<eotPredictsAlt>;
}
<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()>
<(nvaExceptionWrapperMap.(k))({NoViableAltException nvae =
new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()>
throw nvae;})>
<endif>
}
>>

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

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

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: {it |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\t\">";
static final String DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap=\""+\n\t\">";
static final String DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap=\""+\n\t\">";
static final String DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap=\""+\n\t\">";
static final String DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap=\""+\n\t\">";
static final String DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap=\""+\n\t\">>";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
<dfa.javaCompressedTransition: {s|<s; wrap=\""+\n\t\">"; 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]);
}
}

protected 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;
}
@Override
public String getDescription() {
return "<dfa.description>";
}
<@errorMethod()>
<if(dfa.specialStateSTs)>
@Override
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;}
<endif>
 NoViableAltException nvae =
 new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
 error(nvae);
 throw nvae;
}
<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);
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);
<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>; }
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.

```

```

*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// 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(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 {
<scope.attributes:{it |<it.decl>;}; separator=\\n">
}
protected Stack\<<scope.name>_scope> <scope.name>_stack = new Stack\<<scope.name>_scope>();
<endif>
>>

```

```

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

returnStructName(r) ::= "<r.name>_return"

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

/**
Generate the Java type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<returnScopeBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.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))>;
%>

/**
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 <returnScopeBaseType()> {
<if(scope)><scope.attributes:{it |public <it.decl>;}; separator="\n"><endif>
<@ruleReturnMembers()>
};
<endif>
>>

returnScopeBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
%>

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

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

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

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

```



```

<if(index)>
<scope>_stack.elementAt(<index>).<attr.name> =<expr>;
<else>
<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?(<<returnType(referencedRule)>><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?(<castToLabelType({<scope>.start})>):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?(<castToLabelType({<scope>.stop})>):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?((<ASTLabelType><scope>.getTree()):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?((StringTemplate)<scope>.getTemplate()):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) ::= "(<castToLabelType(\"retval.start\")>)"
rulePropertyRef_stop(scope,attr) ::= "(<castToLabelType(\"retval.stop\")>)"

```

```

rulePropertyRef_tree(scope,attr) ::= "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[] { <words64: {it |<it>L}; separator="," > });
>>

```

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

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

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

```
isEmptyString ::= [
 "" : true,
 default : false
]
```

```
isTrue ::= [
 "true" : true,
 default : false
]
```

```
isDefaultLabelType ::= [
 "Token" : true,
 default : false
]
```

```
isPredefinedRewriteRule ::= [
 "topdown" : true,
 "bottomup" : true,
 default : false
]
```

```
castToLabelType(value) ::= <%
<if(!isDefaultLabelType.(labelType))>
(<labelType>
<endif>
<value>
>%>
```

Found

in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/Java.stg

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

/\*

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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.

\*/

@outputFile.imports() ::= <<

<@super.imports(>

import org.antlr.runtime.debug.\*;

import java.io.IOException;

>>

@genericParser.members() ::= <<

<if(grammar.grammarIsRoot)>

public static final String[] ruleNames = new String[] {

"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n\t\t", separator=",

">

};<\n>

<endif>

public static final boolean[] decisionCanBacktrack = new boolean[] {

false, // invalid decision

<grammar.decisions:{d | <d.dfa.hasSynPred; null="false">}; wrap="\n ", separator=",">

};<\n>

<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>

public int ruleLevel = 0;

public int getRuleLevel() { return ruleLevel; }

public void incRuleLevel() { ruleLevel++; }

public void decRuleLevel() { ruleLevel--; }

<if(profile)>

<ctorForProfilingRootGrammar(>

<else>

<ctorForRootGrammar(>

<endif>

```

<ctorForPredefinedListener()>
<else><! imported grammar !>
public int getRuleLevel() { return <grammar.delegators:{g| <g:delegateName()>>>.getRuleLevel(); }
public void incRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>>.incRuleLevel(); }
public void decRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>>.decRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
public boolean alreadyParsedRule(IntStream
input, int ruleIndex) {
 int stopIndex = getRuleMemoization(ruleIndex, input.index());
 ((Profiler)dbg).examineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 return super.alreadyParsedRule(input, ruleIndex);
}

@Override
public void memoize(IntStream 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 boolean evalPredicate(boolean 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) {
 super(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, DebugEventListener dbg, RecognizerSharedState state) {
 super(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, DebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>>}) {
 super(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, 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, dbg, this.state,
this<grammar.delegators:{g|, <g.delegateName()>>}); separator="\n">
 <@finally()>
}<\n>
>>

createListenerAndHandshake()

```

```

 ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy =
 new DebugEventSocketProxy(this, port, input.getTreeAdaptor());<\n>
<else>
DebugEventSocketProxy proxy =
 new DebugEventSocketProxy(this, port, null);<\n>
<endif>
setDebugListener(proxy);
try {
 proxy.handshake();
}
catch (IOException ioe) {
 reportError(ioe);
}
>>

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

@rule.preamble() ::= <<
try { dbg.enterRule(getGrammarFileName(), "<ruleName>");
if (getRuleLevel()==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(getGrammarFileName(), "<ruleName>");
 decRuleLevel();
 if (getRuleLevel()==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>, decisionCanBacktrack[<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);<\n>"

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

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

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

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

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase

@element.prematch() ::=

```

```
"dbg.location(<e.line>,<e.pos>);" // e is arg of element
```

```
@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 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/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/Dbg.stg
```

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```
/*
```

```
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```

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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.
 */
@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() ::= <<
```

```
if (getRuleLevel()==0)
```

```
{
```

```
DBG->commence(DBG);
```

```
}
```

```
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
```

```
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>
```

>>

```

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
>>

@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.preal() ::= "<enterAlt(altNum)>"

@element.prematch() ::=
 "DBG->location(DBG, <e.line>, <e.pos>);" // e is arg of element

@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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/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,terminalOptions) ::= <<

<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,terminalOptions) ::= <<
<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,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

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

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,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,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,terminalOptions,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,terminalOptions,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,terminalOptions) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Delphi/ASTParser.stg
```

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\*/

```
scalaTypeInitMap ::= [
 "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>
```

```
<@end>
```

```
<docComment>
```

```
<recognizer>
```

>>

```
lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
 superClass="Lexer") ::= <<
object <grammar.recognizerName> {
 <tokens:{it | val <it.name> = <it.type>}; separator="\n">

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

```
class <grammar.recognizerName>(input: CharStream, state<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}: RecognizerSharedState) extends <@superClassName><superClass><@end>(input,
state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>}>) {
import <grammar.recognizerName>._
<actions.lexer.members>
```

```
// delegates
```

```
<grammar.delegates:
```

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

```
// delegators
```

```
<grammar.delegators:
```

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

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

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

```
def this(input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}: CharStream) =
 this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)
```

```
<if(memoize)>
```

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

```
state.ruleMemo = new Array[java.util.Map[_,_]](<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 def getGrammarFileName = "<fileName>"
```

```
<if(filterMode)>
```

```
<filteringNextToken()>
```

```
<endif>
```

```

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

<synpreds:{p | <lexerSynpred(p)>}>
<cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new
<grammar.recognizerName>.DFA<dfa.decisionNumber>(this)}; separator="\n\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() ::= <<
override def nextToken(): Token = {
 while (true) {
 if (input.LA(1)==CharStream.EOF
) {
 var eof: Token = new CommonToken((CharStream)input,Token.EOF,
 Token.DEFAULT_CHANNEL,
 input.index(),input.index())
 eof.setLine(getLine())
 eof.setCharPositionInLine(getCharPositionInLine())
 return eof
 }
 state.token = null
state.channel = Token.DEFAULT_CHANNEL
state.tokenStartCharIndex = input.index()
state.tokenStartCharPositionInLine = input.getCharPositionInLine()
state.tokenStartLine = input.getLine()
state.text = null
try {
 val 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 {
 case re: RecognitionException =>
 // shouldn't happen in backtracking mode, but...
 reportError(re)
 recover(re)
 }
 }
}

override def memoize(input: IntStream,
 ruleIndex: Int,
 ruleStartIndex: Int) = {
 if (state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex)
}

override def alreadyParsedRule(input: IntStream, ruleIndex: Int):Boolean {
 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,
 labelType, members, rewriteElementType,
 filterMode, ASTLabelType="Object") ::= <<
object <grammar.recognizerName> {
<if(grammar.grammarIsRoot)>
 val tokenNames = Array(
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
)<\n>
<endif>

 <tokens:{it | val <it.name> = <it.type>}; separator="\n">

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

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

```

```

class <grammar.recognizerName>(input: <inputStreamType>, state<grammar.delegators:{g| <g.recognizerName>
<g.delegateName()>>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state) {
 import <grammar.recognizerName>._
 // delegates
 <grammar.delegators:
 {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:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>>>

 <@members>
 <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
 def this(input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>>: <inputStreamType>) =
 this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>})

 <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 def getTokenNames: Array[String]
= tokenNames
 override def getGrammarFileName = "<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|
 @throws(classOf[RecognitionException])
 def <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType()> = \{
 <if(ruleDescriptor.hasReturn Value)>return
 <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>; separator=", ">} \}); separator="\n">

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

 <cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new

```

```

<grammar.recognizerName>.DFA<dfa.decisionNumber>(this)); separator="\n">
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Array[java.util.Map[_,_]](<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, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
 superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
 members={<actions.treeparser.members>}
) ::= <<
<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>
@throws(classOf[RecognitionException])
def <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
 <ruleLabelDefs()>
<if(trace)>
 traceIn("<ruleName>_fragment", <ruleDescriptor.index>)

```

```

 try {
 <block>
 }
 finally {
 traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 }
<else>
 <block>
<endif>
}
// $ANTLR end <ruleName>
>>

```

```

synpred(name) ::= <<
final def <name>(): Boolean = {
 state.backtracking+=1
 <@start()>
 val start = input.mark()
 try {
 <name>_fragment() // can never throw exception
 } catch {
 case re: RecognitionException =>
 System.err.println("impossible: "+re)
 }
 val success = !state.failed
 input.rewind(start)
 <@stop()>
 state.backtracking-=1
 state.failed=false
 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>
@throws(classOf[RecognitionException])
final def <ruleName>(<ruleDescriptor.parameterScope.parameterScope()>): <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 {
 case re: RecognitionException =>
 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)>
 val retval = 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)>
 val <ruleDescriptor.name>_startIndex = input.index()
 <endif>
 >>

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

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

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

```

```

>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>: RuleReturnScope = null}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it
| var <it.label.text>: <labelType>=null}; separator="\n"
>
<ruleDescriptor.charLabels:{it | int <it.label.text>}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | var list_<it.label.text>: java.util.List=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>"
@throws(classOf[RecognitionException])
final def m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()): Unit = {
 <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index><endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 try {
<if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 try <block><\n>
<else>
 var _type = <ruleName>
 var _channel = BaseRecognizer.DEFAULT_TOKEN_CHANNEL
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 try <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) ::= <<
@throws(classOf[RecognitionException])
def mTokens(): Unit = {
 <block><\n>
}
>>

```



## // SUBRULES

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

```
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
alt<decisionNumber> match {
 <alts:{a | <altSwitchCase(i,a)>}>
 case _ =>
}
<@postbranch()>
>>
```

/\*\* A rule block with multiple alternatives \*/

```
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<decision>
<@postdecision()>
alt<decisionNumber>
match {
 <alts:{a | <altSwitchCase(i,a)>}>
 case _ =>
}
>>
```

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,descriptio
n) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>: Int = 0
<decls>
<@preloop()>
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
 var alt<decisionNumber>:Int = <maxAlt>
 <@predecision()>
 <decision>
 <@postdecision()>
 alt<decisionNumber> match
 {
 <alts:{a | <altSwitchCase(i,a)>}>
 }
 case _ =>
 if (cnt<decisionNumber> >= 1) loop<decisionNumber>_quitflag = true
 else {
 <ruleBacktrackFailure()>
 val eee = new EarlyExitException(<decisionNumber>, input)
 <@earlyExitException()>
 throw eee
 }
 }
 cnt<decisionNumber>+=1
}
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
 var alt<decisionNumber>:Int = <maxAlt>
 <@predecision()>
 <decision>
 <@postdecision()>
 alt<decisionNumber> match {

```

```

 <alts:{ a | <altSwitchCase(i,a)>}>
case _ => loop<decisionNumber>_quitflag = 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(altNum, alt) ::= <<
case <altNum> =>
 <@prealt()>
 <alt>
>>

/** 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(e) ::=

```

```

<<
<@prematch(>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<endif>`match`(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)>
.asInstanceOf[<labelType>]<endif>
<checkRuleBacktrackFailure(>
>>

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

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new java.util.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>,); <checkRuleBacktrackFailure(>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="")
::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1)<\n>
<else>
<label>=input.LT(1).asInstanceOf[<labelType>]<\n>

```

```

<endif>
<endif>
if (<s>) {
 input.consume()
 <postmatchCode>
 <if(!LEXER)>
 state.errorRecovery=false<\n>
 <endif>
 <if(backtracking)>state.failed=false<endif>
}
else {
 <ruleBacktrackFailure()>
 val 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,elementIndex="0") ::= <<
<if(label)>
val <label>Start
 = getCharIndex()
`match`(<string>)
<checkRuleBacktrackFailure()>
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(<string>)

```

```
<checkRuleBacktrackFailure()><\n>
```

```
<endif>
```

```
>>
```

```
wildcard(token,label,elementIndex,terminalOptions) ::= <<
```

```
<if(label)>
```

```
<label>=input.LT(1).asInstanceOf[<labelType>]<\n>
```

```
<endif>
```

```
matchAny(input)
```

```
<checkRuleBacktrackFailure()>
```

```
>>
```

```
wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
```

```
<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-=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)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
<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)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<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)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex>
 = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
`match`(EOF)
<checkRuleBacktrackFailure()>
val <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(EOF)

```

```

<checkRuleBacktrackFailure()>
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** 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) ::= <<
val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<n>

```



```

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

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

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

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

```

```

 <targetState>
 }
>>

//
Cyclic DFA

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

val DFA<dfa.decisionNumber>_eot: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS)
val DFA<dfa.decisionNumber>_eof: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS)
val DFA<dfa.decisionNumber>_min: Array[Char] =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS)
val DFA<dfa.decisionNumber>_max: Array[Char] =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS)
val DFA<dfa.decisionNumber>_accept: Array[Short] =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS)

```

```

val
 DFA<dfa.decisionNumber>_special: Array[Short] =
 DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS)
val DFA<dfa.decisionNumber>_transition = new
 Array[Array[Short]](DFA<dfa.decisionNumber>_transitionS.length)

for (i \<- DFA<dfa.decisionNumber>_transition.indices) {
 DFA<dfa.decisionNumber>_transition(i) =
 DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS(i))
}

class DFA<dfa.decisionNumber> extends DFA {

 def this(recognizer: BaseRecognizer) = {
 this()
 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
 }
 override
 def getDescription = "<dfa.description>"
 <@errorMethod()>
 <if(dfa.specialStateSTs)>
 @throws(classOf[NoViableAltException])
 override def specialStateTransition(s: Int, _input: IntStream):Int = {
 <if(LEXER)>
 val input = _input
 <endif>
 <if(PARSER)>
 val input = _input.asInstanceOf[TokenStream]
 <endif>
 <if(TREE_PARSER)>
 val input = _input.asInstanceOf[TreeNodeStream]
 <endif>
 val _s = s
 s match {
 <dfa.specialStateSTs:{ state |
 case <i0> => <! compressed special state numbers 0..n-1 !>
 <state>}; separator="\n">
 case _ =>
 }
 }
 <if(backtracking)>

```

```

 if (state.backtracking>0) {state.failed=true; return -1}<\n>
<endif>
 val 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) ::= <<
val LA<decisionNumber>_<stateNumber>: Int = input.LA(1)<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
val 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
>>

```

```

/** 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) ::= "<operands; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(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)>
class <scope.name>_scope {
 <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope {
 <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<\n>
<endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
Unit
<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>
Unit
<endif>
<endif>
>>

delegateName(d)
::= <<
<if(d.label)><d.label><else>g<d.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) ::= <<
<scalaTypeInitMap.(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.
 * TODO(matthewlloyd): make this static

```

```

*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
final
class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
 <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
 <@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it | <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.size-<negIndex>-1).<attr.name>
<else>
<if(index)>
<scope>_stack(<index>).<attr.name>
<else>
<scope>_stack.top.<attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name> = <expr>
<else>
<if(index)>
<scope>_stack(<index>).<attr.name> = <expr>
<else>
<scope>_stack.top.<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)>
(if (<scope>!=null) <scope>.<attr.name> else <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) ::= "(if (<scope>!=null) <scope>.getText() else null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(if (<scope>!=null) <scope>.getType() else 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(if (<scope>!=null) <scope>.getCharPositionInLine() else 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(if (<scope>!=null) <scope>.getChannel() else 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"
```

```
ruleLabelPropertyRef_start(scope,attr) ::= "(if (<scope>!=null) <scope>.start.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(if (<scope>!=null) <scope>.stop.asInstanceOf[<labelType>])"
```

```

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

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

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

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(if (<scope>!=null) <scope>.getType() else 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(if (<scope>!=null) <scope>.getLine() else 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"(if (<scope>!=null) <scope>.getCharPositionInLine() else -1)"
lexerRuleLabelPropertyRef_channel(scope,attr)
::=
"(if (<scope>!=null) <scope>.getChannel() else 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
"(if (<scope>!=null) <scope>.getText() else null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
"(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(retval.start.asInstanceOf[<labelType>])"
rulePropertyRef_stop(scope,attr) ::= "(retval.stop.asInstanceOf[<labelType>])"
rulePropertyRef_tree(scope,attr) ::= "(retval.tree.asInstanceOf[<ASTLabelType>])"
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) ::= <<
val <name> = new BitSet(Array[Long](<words64:{it | <it>L};separator=",">))<\n>
>>

codeFileExtension() ::= ".scala"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Scala/Scala.stg
No license file was found, but licenses were detected in source scan.

/*

```

```

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

@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 override bool AlreadyParsedRule(IIntStream
input, int ruleIndex)
{
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override 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 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 !>
<actions.(actionScope).ctorModifier; null="public"> <name>(<inputStreamType> input)
: this(input, DebugEventSocketProxy.DefaultDebuggerPort,

```

```

new RecognizerSharedState())
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>(<InputStreamType> input, int port,
RecognizerSharedState state)
: base(input, state)
{
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>}>);}; separator="\n">
<parserCtorBody()>
<@finally()>
}<\n>
>>

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

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

```

>>

```
ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>(<inputStreamType> input, IDebugEventListener dbg
)
<@superClassRef>: base(input, dbg, new RecognizerSharedState())<@end>
{
<if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<grammar.directDelegates:{g|<g:delegateName()>
= new <g.recognizerName>(input, dbg, this.state, this<grammar.delegates:{g|, <g:delegateName()>}>);};
separator="\n">
<parserCtorBody()>
<@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()>"
```

```
/*
```

```
* Much of the following rules were merged into CSharp3.stg.
```

```
*/
```

```
@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
```

```
//@rule.preamble() ::= <<
```

```

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

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
 DebugListener.Terminate();
>>
//@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.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);"

@@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/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/Dbg.stg

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```

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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,terminalOptions) ::= <<

```

```

<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,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

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

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<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>
<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"
>
<referencedWildcardLabels
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>)};
 separator="\n"
>
<referencedWildcardListLabels
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <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>",<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,terminalOptions,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,terminalOptions,args) ::= <<

```

```

root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);<\n>
>>

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

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,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>
>>

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

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<!
new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=","><endif>)
<else>
this.adaptor.create(<tokenType>, <args; separator=","><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(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/1001035969_1646171611.67/0/antlr-3-5-sources-
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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.
*/

```

```

parserMembers() ::= <<
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
 </if>
 }
}

```

```

<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;
>>

```

```

@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/1001035969_1646171611.67/0/antlr-3-5-sources-
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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,terminalOptions) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.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,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.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,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

//
SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<

```

```

_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.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,terminalOptions,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,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking
= 0) then begin <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.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,terminalOptions,scope) ::= <<
```

```
<if(terminalOptions.node)>
```

```
T<terminalOptions.node>.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>
```

```
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
```

```
<if(backtracking)>
```

```
end;
```

```
<endif>
```

```
<endif>
```

```
>>
```

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

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
```

```
jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg
```

```
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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*
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```

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- \*/

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ToolSTGroupFile.java

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/\*

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*/

```

```

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) ::=

```

```

<<
//-----
// \<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
// \</auto-generated>
//-----

```

```

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

```

```

<if(trace)>
#define ANTLR_TRACE
<endif>
<@debugPreprocessor()>
// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 168, 219
// Unreachable code detected.

```

```

#pragma warning
disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
using RewriteRuleTokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
using ConditionalAttribute = System.Diagnostics.ConditionalAttribute;
<@end>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

} // namespace <actions.(actionScope).namespace>
<endif>
>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>})
::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<tokens: {it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
<scopes: {it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

// delegates
<grammar.delegates:

```

```

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

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<! needed by subclasses !>
{
 OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType(>
input<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName(>}&>)
: this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.delegateName(>}&>))
{
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType(> 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, this.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(>};}>

 OnCreated();
}
public override string GrammarFileName { get { return "<fileName>"; }
}

private static readonly bool[] decisionCanBacktrack = new bool[0];

<if(grammar.hasDelegates)>
public override <lexerInputStreamType(> CharStream
{
 get
 {
 return base.CharStream;
 }
}

```



```

set
{
 base.CharStream = value;
 <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()>;}>
 }
}

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
 base.SetState(state);
 <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
}
<endif>

<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string
ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

 <rules; separator="\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)>,
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()
{
while (true)
{
if (input.LA(1) == CharStreamConstants.EndOfFile)
{
IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default,
input.Index, input.Index);
eof.Line = Line;
eof.CharPositionInLine = CharPositionInLine;
return eof;
}
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,
 labelType, members, rewriteElementType,
 filterMode, ASTLabelType="object") ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar,
actions=actions)> partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
 internal static readonly string[] tokenNames = new string[] {
 "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator=", ">
 };
<endif>
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">

```

```

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

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
 base.SetState(state);
 <grammar.delegates:{g|<g.delegateName(>.SetState(state);}; separator="\n">
}

<if(TREE_PARSER)>
public
override void SetTreeNodeStream(ITreeNodeStream input)
{
 base.SetTreeNodeStream(input);
 <grammar.delegates:{g|<g.delegateName(>.SetTreeNodeStream(input);}; separator="\n">
}
<endif>
<endif>

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

public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

#region Rules
<rules; separator="\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|

<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <return Type(ruleDescriptor)>

<ruleDescriptor.name; format="id"><ruleDescriptor.parameterScope:parameterScope()> <!throws  
RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return

<endif><ruleDescriptor.grammar.delegateName()>.<ruleDescriptor.name;

format="id"><ruleDescriptor.parameterScope.attributes:{ a|a.name; format="id">}; separator=", ">}; \}};

separator="\n">

#endregion Delegated rules

<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>

#region DFA

<cyclicDFAs:{ dfa | private 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)>,  
SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">

}

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

DFA !>

#endregion DFA

<endif>

<if(bitsets)>

#region Follow sets

private static class Follow

{

<bitsets:{ it|bitset(name={\_<it.name>\_in\_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">

}

#endregion Follow sets

<endif>

}

>>

@genericParser.members() ::= <<

#if ANTLR\_DEBUG

```

private static readonly bool[] decisionCanBacktrack =
 new bool[]
 {
 false, // invalid decision
 <grammar.decisions:{d | <d.dfa.hasSynPred>}; wrap="\n", separator=", ">
 };
#else
private static readonly bool[] decisionCanBacktrack = new bool[0];
#endif
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType>
input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType>
input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>}>,
this);}; separator="\n">
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>};
separator="\n">
<endif>
<if(grammar.delegators)>
<last(grammar.delegators):{g|gParent = <g.delegateName()>};>
<endif>
<parserCtorBody()>
 OnCreated();
}
>>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<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={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser
<endif>}, 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, filterMode, labelType={<ASTLabelType>}, ASTLabelType="object",
superClass={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Tree.<
if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},
 members={<actions.treeparser.members>}) ::= <<
<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) ::=
<<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>_fragment() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>_fragment() {}

// $ANTLR start <ruleName>
<ruleModifier(grammar,ruleDescriptor)> void
<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
 <ruleLabelDefs()>
 EnterRule_<ruleName>_fragment();
 EnterRule("<ruleName>_fragment",
 <ruleDescriptor.index>);
 TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try
 {

```

```

<block>
}
finally
{
 TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
 LeaveRule_<ruleName>_fragment();
}
}
// $ANTLR end <ruleName>
>>

```

```

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

```

```

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
 bool success = false;
 state.backtracking++;
 <@start()>
 try { DebugBeginBacktrack(state.backtracking);
 int start = input.Mark();
 try
 {
 fragment();
 }
 catch (RecognitionException re)
 {
 System.Console.Error.WriteLine("impossible: "+re);
 }
 success = !state.failed;
 input.Rewind(start);
 } finally {
 DebugEndBacktrack(state.backtracking, success); }
 <@stop()>
 state.backtracking--;
 state.failed=false;
 return success;
}
#endregion Synpreds
<endif>
>>

```

```

ruleMemoization(name) ::= <<

```



```

<if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
<endif>
>>

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

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

ruleWrapperMap ::= [
"bottomup":{<ruleWrapperBottomup()>},
"topdown":{<ruleWrapperTopdown()>},
default:""
]

ruleWrapperBottomup() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { return bottomup(); }
<endif>
>>

ruleWrapperTopdown()
::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { return topdown(); }
<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(ruleDescriptor.returnScope)>

[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() { }
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() { }
<ruleWrapperMap.(ruleName)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>

```

```

[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName>;
format="id">(<ruleDescriptor.parameterScope:parameterScope(>)
{
 EnterRule_<ruleName>();
 EnterRule("<ruleName>", <ruleDescriptor.index>);
 TraceIn("<ruleName>",
 <ruleDescriptor.index>;
 <ruleScopeSetUp(>
 <ruleDeclarations(>
 <ruleLabelDefs(>
 <ruleDescriptor.actions.init>
 try { DebugEnterRule(GrammarFileName, "<ruleName>");
 DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
 <@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(>
 }
 <endif>
 <endif>
 <endif>
 finally
 {
 TraceOut("<ruleName>", <ruleDescriptor.index>;
 LeaveRule("<ruleName>", <ruleDescriptor.index>;
 LeaveRule_<ruleName>();
 <memoize(>
 <ruleScopeCleanUp(>
 <finally>
 }
 DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);

```

```

} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
}
// $ANTLR end "<ruleName>"
>>

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>internal<endif>
>>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>public<endif>
>>

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

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
retval.Start = (<labelType>)input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type>
<a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>
>>

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

```

```

ruleScopeCleanup() ::= <<
<ruleDescriptor.useScopes:{it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop()}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop()};
separator="\n">
>>

```

```

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

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<[ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
:{it|int <it.label.text> = 0;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{it|List<<labelType>> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charListLabels:{it|List<int> list_<it.label.text> = null;}; separator="\n"
>
>>

```

```

returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<!
This comment is a hack to make sure the following
single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>

```

```

<!!> retval
<endif>
<endif>
<endif>
;
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<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) ::= <<

[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() {}

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)>
void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(>>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp(>
<ruleDeclarations(>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs(>

```

```

 <ruleDescriptor.actions.init>
 <block>
<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
{
 TraceOut("<ruleName>", <ruleDescriptor.index>);
 LeaveRule("<ruleName>", <ruleDescriptor.index>);
 LeaveRule_<ruleName>();
 <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()
{
 <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()>
try { DebugEnterSubRule(<decisionNumber>);

```

```

try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:{a|altSwitchCase(i,a)}>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@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()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|altSwitchCase(i,a)}>
}
}
>>

```

```

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

```

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

```

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<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()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException(<decisionNumber>, input);
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;

} finally { DebugExitSubRule(<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()>

```



```

try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|altSwitchCase(i,a)}>
default:
goto loop<decisionNumber>;
}
}

loop<decisionNumber>:
;

} finally { DebugExitSubRule(<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(altNum,alt) ::= <<
```

```
case <altNum>:
```

```
<@prealt()>
```

```
DebugEnterAlt(<altNum>);
```

```
<alt>
```

```
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(it) ::= <%
<@prematch()>
DebugLocation(<it.line>, <it.pos>);<\n>
<it.el><\n>
%>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List<<elemType; null={<labelType>}>\>();
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>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,terminalOptions,elementIndex,postmatchCode="") ::= <<
<if(label)>
<matchSetLabel()>
<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);
DebugRecognitionException(mse);
<@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=false) ::= <%
<if(label)>
<matchSetLabel()><\n>
<endif>
input.Consume();<\n>
<if(postmatchCode)>
<postmatchCode><\n>
<endif>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
%>

```

```

matchSetLabel() ::= <%
<if(LEXER)>
<label>= input.LA(1);
<else>
<label>=(<labelType>)input.LT(1);
<endif>
%>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/**
Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<if(label)>
int <label>Start = CharIndex;<\n>
Match(<string>); <checkRuleBacktrackFailure()><\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
%>

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

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label>

```

```

= input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** 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; format="id">(<args;
separator=", ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label,elemType={<ASTLabelType>},...)>
>>

/** 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;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;

```

```

<else>
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
%>

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

/**
EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=${<ruleName>}_primary.tree;"
recRuleSetReturnAction(src,name) ::= "${<name>}=${<src>}.<name>;"

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

```

```

}
<else>
Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenType.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>_<k> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<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>_<k> = 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>_<k> = 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, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
}
<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">
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it|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) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

/* 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 class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="+\n\t\t"">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="+\n\t\t"">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="+\n\t\t"">";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="+\n\t\t"">";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="+\n\t\t"">";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="+\n\t\t"">}>";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition: {s|"<s; wrap="+\n\t\t"">"}";
separator=",\n">
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =

```

```

DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private 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 Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
DebugRecognitionException(nvae);
}
}<\n>
<if(dfa.specialStateSTs)>

```

```

private
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;
s = -1;
<! pull these outside the switch cases to save space on locals !>
int LA<dfa.decisionNumber>_1 = input.LA(1);
int index<dfa.decisionNumber>_1 = input.Index;
switch (_s)
{
<dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
<state> }; separator="\n">

default:
break;
}

if (s >= 0)
return s;

<if(backtracking)>
if (state.backtracking > 0) {state.failed=true; return -1;}
<endif>
NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
dfa.Error(nvae);
throw nvae;
}
<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) ::= <<
{
<if(semPredState)>
<! get next lookahead symbol to test edges, then rewind !>

```

```

input.Rewind();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
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) ::= "(<operands; separator=\"||\">)"

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

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

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

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<k>==<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>_<k><ge()><lower> && LA<decisionNumber>_<k><le()><upper>)

```

```
%>
```

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

```
le() ::= "\<="
```

```
ge() ::= ">="
```

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

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

```
attributeScope(scope)
::= <<
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
 <scope.attributes: { it|public <it.decl>; }; separator="\n">
}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit(<scope.name>_scope scope)
{
 <scope.actions.scopeinit>
}
<else>
protected virtual 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>
}
<else>
protected virtual void <scope.name>_scopeAfter(<scope.name>_scope scope) {}
<endif>
protected readonly ListStack<<scope.name>_scope> <scope.name>_stack = new
ListStack<<scope.name>_scope>();
<endif>
>>
```

```
globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>
```

```
ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
```

```
>>
```

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

```
returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes &&
ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
>%
```

```
/** Generate the C# type associated with a single or multiple return
```

```
* values.
```

```
*/
```

```
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
>%
```

```
delegateName(it) ::= <<
<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(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
<ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
{
<scope.attributes:{it|public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

ruleReturnBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%>

@returnScope.ruleReturnMembers() ::= <<
>>

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

parameterAttributeRef(attr) ::= <<
<attr.name; format="id">
>>

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

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id">
<else>
<scope>_stack.Peek().<attr.name; format="id">
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>

```



```

<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id"> = <expr>;
<else>
<scope>_stack.Peek().<attr.name; format="id"> = <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.Count>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?((<return Type(referencedRule)><scope>).<attr.name; format="id">:<initValue(attr.type)>)
<else>
<scope>
<endif>
%>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id">
<else>
<attr.name; format="id">
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<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.default(string)"
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):default(<labelType>))"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?((<labelType><scope>.Stop):default(<labelType>))"
ruleLabelPropertyRef_tree(scope,attr) ::=
"<scope>!=null?((<ASTLabelType><scope>.Tree):default(<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
(<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string))
<else>
(<scope>!=null?input.ToString(<scope>.Start,<scope>.Stop):default(string))
<endif>
%>
```

```
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.Template: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:default(string))"

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) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "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.Template"

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.Template =<expr>;"

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

```

```

@execAction.indentedAction() ::= <<
<action>
>>

/** 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|<it>UL}; separator=", "> });
>>

codeFileExtension() ::= ".cs"

true_value() ::=
"true"
false_value() ::= "false"

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

```

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

```

/*

```

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\*/

```
@genericParserHeaderFile.memVars() ::= <<
```

```
/* AST parserHeaderFile.memVars */
```

```
NSInteger ruleLevel;
```

```
NSArray *ruleNames;
```

```
<@super.memVars()> /* AST super.memVars */
```

```
<parserMemVars()> /* AST parserMemVars */
```

```
>>
```

```
@genericParserHeaderFile.properties() ::= <<
```

```
/* AST parserHeaderFile.properties */
```

```
<@super.properties()> /* AST super.properties */
```

```
<parserProperties()> /* AST parserproperties */
```

```
>>
```

```
@genericParserHeaderFile.methodsDecl()
```

```
::= <<
```

```
/* AST parserHeaderFile.methodsDecl */
```

```
<@super.methodsDecl()> /* AST super.methodsDecl */
```

```
<parserMethodsDecl()> /* AST parsermethodsDecl */
```

```
>>
```

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

```
/* AST genericParser.synthesize */
```

```
<@super.synthesize()>
```

```
<parserSynthesize()>
```

```
>>
```

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

```
/* AST genericParser.methods */
```

```
<@super.methods()>
```

```
<parserMethods()>
```

```
>>
```

```
/* additional init code for tree support */
```

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

```
/* AST genericParser.init */
```

```
<@super.init()>
```

```
[self setTreeAdaptor:[[CommonTreeAdaptor newTreeAdaptor] retain]];
```

```
>>
```

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

```
/* AST genericParser.dealloc */
```

```
[self setTreeAdaptor:nil];
```

```

<@super.dealloc(>
>>

/* Add an adaptor property that knows how to build trees */
parserMemVars() ::= <<
/* AST parserMemVars */
id<TreeAdaptor> treeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parserProperties() ::= <<
/* AST parserProperties */
@property (retain,
getter=getTreeAdaptor, setter=setTreeAdaptor:) id<TreeAdaptor> treeAdaptor;
>>

/** Declaration of additional tree support methods - go in interface of parserHeaderFile() */
parserMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<TreeAdaptor>) getTreeAdaptor;
- (void) setTreeAdaptor:(id<TreeAdaptor>)theTreeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parserSynthesize() ::= <<
/* AST parserProperties */
@synthesize treeAdaptor;
>>

/** Definition of addition tree support methods - go in implementation of genericParser() */
parserMethods() ::= <<
/* AST parserMethods */
- (id<TreeAdaptor>) getTreeAdaptor
{
return treeAdaptor;
}

- (void) setTreeAdaptor:(id<TreeAdaptor>)aTreeAdaptor
{
if (aTreeAdaptor != treeAdaptor) {
treeAdaptor = aTreeAdaptor;
}
}
>>

/** addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */

```

```

<recognizer.ASTLabelType; null="CommonTree">
*tree;
>>

/** the interface of returnScope properties */
@returnScopeInterface.properties() ::= <<
/* AST returnScopeInterface.properties */
@property (retain, getter=getTree, setter=setTree:) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
/* AST returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;<\n>
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;<\n>
>>

/** the implementation of returnScope synthesize */
@returnScopeImplementation.synthesize() ::= <<
/* AST returnScope.synthesize */
@synthesize tree;
>>

/** the implementation of returnScope methods */
@returnScopeImplementation.methods() ::= <<
/* AST returnScope.methods */
- (<ASTLabelType> *)getTree
{
 return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
 if (tree != aTree) {
 if (tree != nil) [tree release];
 if (aTree != nil) [aTree retain];
 tree = aTree;
 }
}

- (void) dealloc
{
 self.tree = nil;
 [super dealloc];
}

>>

```

```

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

ruleLabelDefs() ::= <<
/* AST ruleLabelDefs */
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> *<it.label.text>_tree=nil;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> *<it.label.text>_tree = nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:{it | RewriteRuleTokenStream *stream_<it> =
[[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
description:@ "token <it>" retain];}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:{it
| RewriteRuleSubtreeStream *stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:@ "rule <it>" retain];}; separator="\n">
>>

ruleCleanUp() ::= <<
/* AST ruleCleanUp */
<super.ruleCleanUp()>
<[ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites]:{it |
[stream_<it> release];}; separator="\n">
<!
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(backtracking)>if (state.backtracking == 0) {<\n>
<endif>
[<prevRuleRootRef()> setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0]];<\n>
[treeAdaptor setTokenBoundaries:[<prevRuleRootRef()> getTree]
From:[<prevRuleRootRef()> getStart]
To:[<prevRuleRootRef()> getStop]];<\n>
<if(backtracking)>}<\n>
<endif>
<endif>
[root_0 release];
!>
>>

rewriteCodeLabelsCleanUp() ::= <<
/* AST
rewriteCodeLabelsCleanUp */
<referencedTokenLabels:{it | [stream_<it> release];}; separator="\n">
<referencedTokenListLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleLabels:{it | [stream_<it> release];}; separator="\n">

```



```

<referencedRuleListLabels:{it | [stream_<it> release];}; 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> *)[[[treeAdaptor class] newEmptyTree] retain];<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>
if
(<actions.(actionScope).synpredgate>) <endif>
[stream_<token> addElement:<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) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)>
<if(backtracking)>
if (!<actions.(actionScope).synpredgate>) <endif>
[stream_<token> addElement:<label>];<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */

```

```

tokenRefRuleRootTrackAndListLabel(token,label,elementIndex) ::= <<
<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> addElement:[<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) ::= <<
<! <super.ruleRefRuleRoot(...)> !>
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
[stream_<rule.name> addElement:[<label> getTree];<\n>
>>

/** ^(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;<\n>
<rewriteCodeLabels(>
root_0 = (<ASTLabelType> *)[[treeAdaptor class] newEmptyTree] retain];<\n>
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = (<ASTLabelType>)[treeAdaptor rulePostProcessing:root_0];
[input replaceChildren:[treeAdaptor getParent:retval.start]
 From:[treeAdaptor getChildIndex:retval.start]
 To:[treeAdaptor getChildIndex:_last]
 With: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;<\n>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{it | RewriteRule<rewriteElementType>Stream *stream_<it> =
 [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
description:@ "token <it>" element:<it>] retain];};
 separator="\n"
>
<referencedTokenListLabels:{it | RewriteRule<rewriteElementType>Stream *stream_<it> =
 [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
description:@ "token <it>" elements:list_<it>] retain];};
 separator="\n"

```

```

>
<referencedWildcardLabels:{it
| RewriteRuleSubtreeStream stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:"wildcard <it>" element:<it>] retain];};
separator="\n"
>
<referencedWildcardListLabels:{it | RewriteRuleSubtreeStream stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
descriptor:"wildcard <it>" elements:list_<it>] retain];};
separator="\n"
>
<referencedRuleLabels:{it | RewriteRuleSubtreeStream *stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:@ "token <it>" element:<it>!=nil?[<it> getTree]:nil] retain];};
separator="\n"
>
<referencedRuleListLabels:{it | RewriteRuleSubtreeStream *stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:@ "token <it>" elements:list_<it>] retain];};
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)
::=
<<
// <fileName>:<description>
{
if (!(<referencedElements:{el | [stream_<el> hasNext]}; separator=" || ">)) {
 @throw [RewriteEarlyExitException newException];
}
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 = nil;"

```

```

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
 <ASTLabelType> *root_<treeLevel> = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];
 <root:rewriteElement()>
 <children:rewriteElement()>
 [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
}

```

```

}<\n>
>>

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

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

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
// TODO: args: <args; separator=", ">
[treeAdaptor addChild:<createRewriteNodeFromElement(...)> toTree:root_<treeLevel>];<\n>
>>

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

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

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

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

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

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
[treeAdaptor addChild:<createImaginaryNode(tokenType=token, ...)> toTree:root_<treeLevel>];<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<

```

```

root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ...)>
old: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) ::= <<
[treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel>];<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:(id<Tree>)[stream_<rule> nextNode]
old:root_<treeLevel>];<\n>
>>

rewriteNodeAction(action) ::= <<
[treeAdaptor addChild:<action> toTree:root_<treeLevel>];<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];<\n>
>>

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

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

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label)
::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]

```

```

old:root_<treeLevel>];<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
 [<terminalOptions.node> new<terminalOptions.node>:<tokenType> <if(args)>, <args; separator=", "><endif>]
<else>
 <if(args)>
 [[treeAdaptor createTree:<tokenType> <if(first(args))>FromToken:<first(args)><endif>
<if(first(rest(args)))>Text:<first(rest(args))><else>Text:@ "<tokenType>"<endif>] retain]
 <else>
 [[treeAdaptor createTree:<tokenType> Text:@ "<tokenType>"] retain]
 <endif>
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args)
::= <<
<if(terminalOptions.node)>
 [<terminalOptions.node> new<terminalOptions.node>:[stream_<token> nextToken]<if(args)>, <args;
separator=", "><endif>]
<else>
 <if(args)> <! must create new node from old !>
 [[treeAdaptor createTree:<token> Text:<first(rest(args))> <args; separator=", ">] retain]
 <else>
 [stream_<token> nextNode]
 <endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/AST.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD license"]
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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.

\*/

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

```
DebugTreeAdaptor *adaptor = [DebugTreeAdaptor newTreeAdaptor:(id)dbg Adaptor:[CommonTreeAdaptor newTreeAdaptor]];
```

```
// fix this
```

```
- (void) setTreeAdaptor:(id<TreeAdaptor>)anAdaptor
```

```
{
```

```
 adaptor = [DebugTreeAdaptor newTreeAdaptor:dbg Adaptor:anAdaptor];
```

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

```
 adaptor = [DebugTreeAdaptor newTreeAdaptor:adaptor withDBG:dbg];
```

```
<else>
```

```
 adaptor = (DebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
```

```
<endif><\n>
```

```
 <grammar.directDelegates:{g[<g:delegateName()> setTreeAdaptor:adaptor];}>
```

```
}
```

```
- (id<TreeAdaptor>)getTreeAdaptor
```

```
{
```

```
 return adaptor;
```

```
><\n>
```

```

>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
 [DebugEventSocketProxy newDebugEventSocketProxy:self, port, <if(TREE_PARSER)>[input
getTreeAdaptor]<else>adaptor<endif>];
[self setDebugListener:proxy];
[self set<inputStreamType>:[Debug<inputStreamType> newDebug<inputStreamType>:input with:proxy]];
try {
 [proxy handshake];
}
@catch (IOException *ioe) {
 [self reportError:ioe];
}
>>

@ctorForRootGrammar.finally() ::= <<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForProfilingRootGrammar.finally()
::=<<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForPredefinedListener.superClassRef() ::= @"super(input, dbg);"

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];<\n>
<endif>
>>

@treeParserHeaderFile.superClassName ::= "DebugTreeParser"

@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-

```

## 1.212 string-template 3.2.1

## 1.213 metrics-jvm 3.1.0

## 1.214 asm 5.0.2

## 1.215 jsp 2.3.1

## 1.216 slf4j 1.7.6

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## 1.217 jersey-client 1.19

# 1.218 hamcrest 1.1

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# 1.219 jersey 2.26

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```
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/ExtensionRegistryFactory.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/LongArrayList.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
```



```

jar/com/google/protobuf/RpcCallback.java
*
/opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/AbstractMessageLite.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/DoubleArrayList.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/IntArrayList.java
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jar/com/google/protobuf/Descriptors.java
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* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/MessageLiteToString.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/ByteOutput.java
*
/opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/TextFormatEscaper.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/Android.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/FloatArrayList.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/RpcController.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/duration.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/ProtocolMessageEnum.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/MapEntry.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/NioByteString.java
*
/opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/DynamicMessage.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/MapEntryLite.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/ExtensionRegistryLite.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/SingleFieldBuilder.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/LazyFieldLite.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/MessageLite.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-

```

jar/com/google/protobuf/GeneratedMessageV3.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/BlockingRpcChannel.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/UnknownFieldSet.java  
 \*  
 /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/RpcUtil.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/MapFieldLite.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Parser.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/DiscardUnknownFieldsParser.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/LazyStringArrayList.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/MessageReflection.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/LazyField.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/LazyStringList.java  
 \*  
 /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/MutabilityOracle.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/ProtocolStringList.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/MapField.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/empty.proto  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/RepeatedFieldBuilder.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/ByteString.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/AbstractParser.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/type.proto  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/wrappers.proto  
 \*  
 /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/RopeByteString.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/google/protobuf/compiler/plugin.proto  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/UnsafeUtil.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/com/google/protobuf/TextFormatParseInfoTree.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-  
 jar/google/protobuf/source\_context.proto

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Service.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/GeneratedMessageLite.java  
 \*  
 /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/RepeatedFieldBuilderV3.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/AbstractMessage.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/BlockingService.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Message.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Utf8.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/timestamp.proto  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/struct.proto  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Internal.java  
 \*  
 /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ExtensionRegistry.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/WireFormat.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/SmallSortedMap.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/CodedInputStream.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/SingleFieldBuilderV3.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/GeneratedMessage.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/AbstractProtobufList.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/field\_mask.proto  
 \*  
 /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ByteBufferWriter.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ExtensionLite.java  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/api.proto  
 \* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/TextFormat.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/TextFormatParseLocation.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Extension.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/CodedOutputStream.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/RpcChannel.java

\*

/opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/UnsafeByteOperations.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ProtobufArrayList.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ExperimentalApi.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ServiceException.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/MessageOrBuilder.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/any.proto

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/UnknownFieldSetLite.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/descriptor.proto

\*

/opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/UninitializedMessageException.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java

\* /opt/cola/permits/1001183670\_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/FieldSet.java

## 1.238 jna-platform 4.2.2

### 1.238.1 Available under license :

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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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are not  
compelled to copy the source along with the object code.

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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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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

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## 1.242 guice-servlet 3.0

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# 1.244 grizzly-framework 2.4.4

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```
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## 1.247 grizzly-http-server 2.4.4

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## 1.254 batik-i18n 1.10

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## 1.265 jersey-spring 1.19

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 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/AnnotationWriter.java  
 \*  
 /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/MethodVisitor.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
 \* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/ASMifierFieldVisitor.java

\*

/opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/ClassReader.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/Edge.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/MethodNode.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/Type.java

\*

/opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/ClassNode.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/Opcodes.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/Method.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/AnnotationNode.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/ASMifierAbstractVisitor.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/ASMifierClassVisitor.java

\*

/opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/Label.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/MemberNode.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java

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\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/commons/StaticInitMerger.java

\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/Item.java

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* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/LabelNode.java
*
/opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
jar/org/objectweb/asm/util/ASMifierAnnotationVisitor.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
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* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
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* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/FieldNode.java
*
/opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/tree/InsnList.java
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jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-jar/org/objectweb/asm/Handler.java
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jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1001628523_1612183578.8/0/asm-all-3-3-1-sources-
jar/org/objectweb/asm/util/CheckClassAdapter.java
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jar/org/objectweb/asm/xml/SAXClassAdapter.java  
\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-  
jar/org/objectweb/asm/xml/ASMContentHandler.java  
\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-  
jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
\*  
/opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-  
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java  
\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-  
jar/org/objectweb/asm/xml/SAXAdapter.java  
\* /opt/cola/permits/1001628523\_1612183578.8/0/asm-all-3-3-1-sources-  
jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
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# 1.268 jetty-continuation 9.2.14.v20151106

## 1.269 commons-lang3 3.6

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# 1.278 jersey-common 2.26

# 1.279 apache-httpclient 4.5.2

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## 1.282 jasper-compiler 5.5.23

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\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JspRuntimeContext.java

\*

/opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JDTCompiler.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/AntCompiler.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/BeanRepository.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JspConfig.java

\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Compiler.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/tagplugin/TagPlugin.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JasperTagInfo.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/TagFileProcessor.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/TextOptimizer.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ELFunctionMapper.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/tagplugin/TagPluginContext.java  
\*  
/opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ScriptingVariabler.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/SmmapGenerator.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/TldLocationsCache.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ELParser.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Localizer.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JavacErrorDetail.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Dumper.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/TagConstants.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ErrorHandler.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Node.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/SmmapUtil.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/DefaultErrorHandler.java  
\*  
/opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Validator.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JspDocumentParser.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Parser.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/TagPluginManager.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ServletWriter.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/PageDataImpl.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JspReader.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ImplicitTagLibraryInfo.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/TagLibraryInfoImpl.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/SmmapStratum.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ParserController.java  
\*  
/opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/ErrorHandler.java  
\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Mark.java  
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\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/Collector.java  
\*  
/opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/PageInfo.java  
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\*/  
// XXX - We use a proprietary call to the interpreter for now

Found in path(s):

\* /opt/cola/permits/1003295355\_1615417986.05/0/compiler-zip/compiler/JspUtil.java

## 1.283 jets3t 0.9.0

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\* Project hosted at <http://bitbucket.org/jmurty/jets3t/>  
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*/
package org.jets3t.service.acl;

/**
 * Represents an access permission, as granted to grantees in an {@link AccessControlList}.
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 *
 * @author James Murty
 */
public
class Permission {
 public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
 public static final Permission PERMISSION_READ = new Permission("READ");
 public static final Permission PERMISSION_WRITE = new Permission("WRITE");
 public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
 public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

 private String permissionString = "";

 private Permission(String permissionString) {
 this.permissionString = permissionString;
 }

 /**
 * @param str
 * a string representation of a permission, eg <tt>FULL_CONTROL</tt>
 * @return
 * the Permission object represented by the given permission string
 */
 public static Permission parsePermission(String str) {
 Permission permission = null;
 if (str == null) {
 // Do nothing
 } else if (str.equals(PERMISSION_FULL_CONTROL.toString()))
 {
 permission = PERMISSION_FULL_CONTROL;
 } else if (str.equals(PERMISSION_READ.toString())) {
 permission = PERMISSION_READ;
 } else if (str.equals(PERMISSION_WRITE.toString())) {
 permission = PERMISSION_WRITE;
 }
 }
}

```

```

 } else if (str.equals(PERMISSION_READ_ACP.toString())) {
 permission = PERMISSION_READ_ACP;
 } else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
 permission = PERMISSION_WRITE_ACP;
 } else {
 permission = null;
 }
 return permission;
}

/**
 * @return
 * the string representation of a permission object, eg <tt>FULL_CONTROL</tt>
 */
public String toString() {
 return permissionString;
}

public int hashCode() {
 return permissionString.hashCode();
}

public boolean equals(Object obj) {
 return (obj instanceof Permission) && toString().equals(obj.toString());
}
}

```

## 1.284 swagger-annotations 1.5.17

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 */

```

```

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

 /**
 * The name of the license.
 *
 * @return the name of the license
 */
 String name();

 /**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
 String url() default "";
}

```

## 1.285 jasper-runtime 5.5.23

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\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/PerThreadTagHandlerPool.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/JspFactoryImpl.java  
\*  
/opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/JspContextWrapper.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/BodyContentImpl.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/JspWriterImpl.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/HttpJspBase.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/ProtectedFunctionMapper.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/ServletResponseWrapperInclude.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/JspSourceDependent.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/TagHandlerPool.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/JspFragmentHelper.java  
\* /opt/cola/permits/1003295005\_1615417881.44/0/runtime-zip/runtime/JspRuntimeLibrary.java  
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/\*\*  
\* Proprietary method to evaluate EL expressions.  
\* XXX - This method should go away once the EL interpreter moves  
\* out of JSTL and into its own project. For now, this is necessary  
\* because the standard machinery is too slow.  
\*  
\* @param expression The expression to be evaluated  
\* @param expectedType The expected resulting type  
\*/



```
* @param pageContext The page context
* @param functionMap Maps prefix and name to Method
* @return The result of the evaluation
*/
```

Found in path(s):

```
* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/PageContextImpl.java
```

**1.286 java-xmlbuilder 0.4**

**1.287 jetty-http 9.3.25.v20180904**

**1.288 jetty-jndi 9.3.25.v20180904**

**1.289 jetty-annotations 9.3.25.v20180904**

**1.290 jetty-xml 9.3.25.v20180904**

**1.291 websocket-servlet 9.3.25.v20180904**

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**1.293 websocket-common 9.3.25.v20180904**

# 1.294 websocket-api 9.3.25.v20180904

# 1.295 jetty-security 9.3.25.v20180904

# 1.296 httpcomponents-client 4.5.2

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## **1.298 websocket-client 9.3.25.v20180904**

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# 1.300 jetty-io 9.3.25.v20180904

# 1.301 jetty-util 9.3.25.v20180904

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

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#### MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.304 jetty-security 9.4.17.v20190418

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.305 apache-httpclient 4.4.1

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## 1.331 threetenbp 1.3.1

## 1.332 kerby-xdr 1.1.0

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## **1.343 jersey-server 2.26**

## **1.344 jersey-media-jaxb 2.26**

## **1.345 jersey-container-servlet-core 2.26**

# 1.346 offheap-store 2.3.2

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# 1.348 hamcrest 1.3

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## 1.349 commons-crypto 1.0.0

## 1.350 jamon-runtime 2.4.1

## 1.351 apache-ds-kerberos-codec 2.0.0

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## 1.352 nimbus-jose-jwt 4.41.1

## 1.353 aws-java-sdk 1.7.4

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 */
package com.amazonaws.services.opsworks.model;

import java.io.Serializable;

/**
 * <p>
 * Describes stack or user permissions.
 * </p>
 */
public class Permission implements Serializable {

 /**
 * A stack ID.
 */
 private String stackId;
```



```

/**
 * The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 *
href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers.
 */
private String iamUserArn;

/**
 * Whether the user can use SSH.
 */
private Boolean allowSsh;

/**
 * Whether the user can use sudo.
 */
private Boolean allowSudo;

/**
 * The user's permission level, which must be the following:
 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 */
private String level;

/**
 * A stack ID.
 *
 * @return A stack ID.
 */
public String getStackId() {
 return stackId;
}

/**
 * A stack ID.
 *
 * @param stackId A stack ID.
 */
public void setStackId(String stackId) {
 this.stackId = stackId;
}

```

```

/**
 * A stack ID.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param stackId A stack ID.
 *
 * @return A reference to this updated object so that method calls can be chained
 * together.
 */
public Permission withStackId(String stackId) {
 this.stackId = stackId;
 return this;
}

/**
 * The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 * href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers.
 *
 * @return The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 * href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers.
 */
public String getIamUserArn() {
 return iamUserArn;
}

/**
 * The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 * href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers.
 *
 * @param iamUserArn The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM ARNs, see <a
 * href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers.
 */
public void setIamUserArn(String iamUserArn) {
 this.iamUserArn = iamUserArn;
}

/**
 * The Amazon Resource Name (ARN) for an AWS Identity and Access
 * Management (IAM) role. For more information about IAM

```

ARNs, see <a

```
* href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
* Identifiers.
* <p>
* Returns a reference to this object so that method calls can be chained together.
*
* @param iamUserArn The Amazon Resource Name (ARN) for an AWS Identity and Access
* Management (IAM) role. For more information about IAM ARNs, see <a
* href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
* Identifiers.
```

```
*
* @return A reference to this updated object so that method calls can be chained
* together.
```

```
*/
```

```
public Permission withIamUserArn(String iamUserArn) {
 this.iamUserArn = iamUserArn;
 return this;
}
```

```
/**
```

```
* Whether the user can use SSH.
*
* @return Whether the user can use SSH.
```

```
*/
```

```
public Boolean isAllowSsh() {
 return allowSsh;
}
```

```
/**
```

```
* Whether the user can use
SSH.
*
* @param allowSsh Whether the user can use SSH.
```

```
*/
```

```
public void setAllowSsh(Boolean allowSsh) {
 this.allowSsh = allowSsh;
}
```

```
/**
```

```
* Whether the user can use SSH.
* <p>
* Returns a reference to this object so that method calls can be chained together.
```

```
*
```

```
* @param allowSsh Whether the user can use SSH.
```

```
*
```

```
* @return A reference to this updated object so that method calls can be chained
* together.
```

```
*/
```

```

public Permission withAllowSsh(Boolean allowSsh) {
 this.allowSsh = allowSsh;
 return this;
}

/**
 * Whether the user can use SSH.
 *
 * @return Whether the user can use SSH.
 */
public Boolean getAllowSsh() {
 return allowSsh;
}

/**
 * Whether the user can use sudo.
 *
 * @return Whether the user can use sudo.
 */
public Boolean isAllowSudo() {
 return allowSudo;
}

/**
 * Whether
the user can use sudo.
 *
 * @param allowSudo Whether the user can use sudo.
 */
public void setAllowSudo(Boolean allowSudo) {
 this.allowSudo = allowSudo;
}

/**
 * Whether the user can use sudo.
 *
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param allowSudo Whether the user can use sudo.
 *
 * @return A reference to this updated object so that method calls can be chained
 * together.
 */
public Permission withAllowSudo(Boolean allowSudo) {
 this.allowSudo = allowSudo;
 return this;
}

```

```

/**
 * Whether the user can use sudo.
 *
 * @return Whether the user can use sudo.
 */
public Boolean getAllowSudo() {
 return allowSudo;
}

/**
 * The user's permission level, which must be the following:
 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 *
 * @return The user's permission level, which must be the following:
 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 */
public String getLevel() {
 return level;
}

/**
 * The user's permission level, which must be the following:

 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 *
 * @param level The user's permission level, which must be the following:
 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 */

```

```

public void setLevel(String level) {
 this.level = level;
}

/**
 * The user's permission level, which must be the following:
 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 *
 * @param level The user's permission level, which must be the following:
 * <code>deny</code> <code>show</code>
 * <code>deploy</code> <code>manage</code>
 * <code>iam_only</code> <p>For more information on the
 * permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
 * User Permissions
 *
 * @return A reference to this updated object so that method calls can be chained
 * together.
 */
public Permission withLevel(String level) {
 this.level = level;
 return this;
}

/**
 * Returns a string representation of this object; useful for testing and
 * debugging.
 *
 * @return A string representation of this object.
 *
 * @see java.lang.Object#toString()
 */
@Override
public String toString() {
 StringBuilder sb = new StringBuilder();
 sb.append("{}");
 if (getStackId() != null) sb.append("StackId: " + getStackId() + ",");
 if (getIamUserArn() != null) sb.append("IamUserArn: " + getIamUserArn() + ",");
 if (isAllowSsh() != null) sb.append("AllowSsh: " + isAllowSsh() + ",");
 if (isAllowSudo() != null) sb.append("AllowSudo: " + isAllowSudo() +

```

```

 ");
 if (getLevel() != null) sb.append("Level: " + getLevel());
 sb.append("}");
 return sb.toString();
}

@Override
public int hashCode() {
 final int prime = 31;
 int hashCode = 1;

 hashCode = prime * hashCode + ((getStackId() == null) ? 0 : getStackId().hashCode());
 hashCode = prime * hashCode + ((getIamUserArn() == null) ? 0 : getIamUserArn().hashCode());
 hashCode = prime * hashCode + ((isAllowSsh() == null) ? 0 : isAllowSsh().hashCode());
 hashCode = prime * hashCode + ((isAllowSudo() == null) ? 0 : isAllowSudo().hashCode());
 hashCode = prime * hashCode + ((getLevel() == null) ? 0 : getLevel().hashCode());
 return hashCode;
}

@Override
public boolean equals(Object obj) {
 if (this == obj) return true;
 if (obj == null) return false;

 if (obj instanceof Permission == false) return false;
 Permission other = (Permission)obj;

 if (other.getStackId() == null ^ this.getStackId() == null) return false;
 if (other.getStackId() != null && other.getStackId().equals(this.getStackId()) == false) return false;
 if (other.getIamUserArn() == null ^ this.getIamUserArn() == null) return false;
 if (other.getIamUserArn() != null && other.getIamUserArn().equals(this.getIamUserArn()) == false) return
false;
 if (other.isAllowSsh() == null ^ this.isAllowSsh() == null) return false;
 if (other.isAllowSsh() != null && other.isAllowSsh().equals(this.isAllowSsh()) == false) return false;
 if (other.isAllowSudo() == null ^ this.isAllowSudo() == null) return false;
 if (other.isAllowSudo() != null && other.isAllowSudo().equals(this.isAllowSudo()) == false) return false;
 if (other.getLevel() == null ^ this.getLevel() == null) return false;
 if (other.getLevel() != null && other.getLevel().equals(this.getLevel()) == false) return false;
 return
true;
}

}

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*/
package com.amazonaws.services.s3.model;
```

```
/**
 * Specifies constants defining an access permission,
 * as granted to grantees in an
 * {@link AccessControlList}. Only a limited set of permission are available;
 * each one is represented as a value in this enumeration.
 */
```

```
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.
 * </p>
 */
```

```
 FullControl("FULL_CONTROL", "x-amz-grant-full-control"),
```

```
 /**
 * Grants permission to list the bucket when applied to a bucket.
 * Grants permission to read object data
 * and/or metadata when applied to an object.
 */
```

```
 Read("READ", "x-amz-grant-read"),
```

```
 /**
 * Grants permission to create, overwrite, and
 * delete any objects in the bucket.
 * <p>
 * This permission is not supported for objects.
 * </p>
 */
```

```
 Write("WRITE", "x-amz-grant-write"),
```

```
 /**
 * Grants permission to read the ACL for the applicable bucket or object.
```



```

* <p>
* The owner of a bucket or object always implicitly has this permission.
* </p>
*/
ReadAcp("READ_ACP", "x-amz-grant-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>
* <p>
* Granting this permission is equivalent to granting <code>FULL_CONTROL</code>because
* the grant recipient can make any changes to the ACP.
* </p>
*/
WriteAcp("WRITE_ACP", "x-amz-grant-write-acp");

private String permissionString;
private String headerName;

private Permission(String permissionString, String headerName) {
 this.permissionString = permissionString;
 this.headerName = headerName;
}

/**
* Returns the name of the header used to grant this permission.
*/
public String getHeaderName() {
 return headerName;
}

/**
* Gets the string representation of this permission object as defined by
* Amazon S3, eg. <code>FULL_CONTROL</code>.
*
* @return The string representation of this permission object as defined by
* Amazon S3, eg. <code>FULL_CONTROL</code>.
*/
public String toString() {
 return permissionString;
}

/**
* Returns the {@link Permission} enumeration value representing the specified Amazon

```

```

* S3 Region ID string. If specified string doesn't map to a known Amazon S3
* Region, returns <code>null</code>.
*
* @param str
* A string representation of an Amazon S3 permission, eg.
* <code>FULL_CONTROL</code>
*
* @return The {@link Permission} object represented by the given permission string,
* Returns <code>null</code> if the string isn't a valid representation
* of an Amazon S3
* permission.
*/
public static Permission parsePermission(String str) {
 for (Permission permission : Permission.values()) {
 if (permission.permissionString.equals(str)) {
 return permission;
 }
 }

 return null;
}

}
/*
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* permissions and limitations under the License.
*/
package com.amazonaws.services.elastictranscoder.model;

import java.io.Serializable;

/**
* <p>
* The <code>Permission</code> structure.
* </p>
*/
public class Permission implements Serializable {

```

```

/**
 * The type of value that appears in the Grantee object:
 * <code>Canonical</code>: Either the canonical user ID for an AWS
 * account or an origin access identity for an Amazon CloudFront
 * distribution. <important>A canonical user ID is not the same as an AWS
 * account number.</important> <code>Email</code>: The
 * registered email address of an AWS account.
 * <code>Group</code>: One of the following predefined Amazon S3
 * groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or
 * <code>LogDelivery</code>.
 * <p>
 * Constraints:

 * Pattern: (^Canonical$)(^Email$)(^Group$)

 */
private String granteeType;

/**
 * The AWS user or group that you want to have access to transcoded files
 * and playlists. To identify the user or group, you can specify the
 * canonical user ID for an AWS account, an origin access identity for a
 * CloudFront distribution, the registered email address of an AWS
 * account, or a predefined Amazon S3 group.
 * <p>
 * Constraints:

 * Length: 1 - 255

 */
private
String grantee;

/**
 * The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include: <code>READ</code>: The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds to the Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
 * <p>
 * Constraints:

 * Length: 0 - 30

 */
private com.amazonaws.internal.ListWithAutoConstructFlag<String> access;

/**

```

```

* The type of value that
appears in the Grantee object:
* <code>Canonical</code>: Either the canonical user ID for an AWS
* account or an origin access identity for an Amazon CloudFront
* distribution. <important>A canonical user ID is not the same as an AWS
* account number.</important> <code>Email</code>: The
* registered email address of an AWS account.
* <code>Group</code>: One of the following predefined Amazon S3
* groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or
* <code>LogDelivery</code>.
* <p>
* Constraints:

* Pattern: (^Canonical$)(^Email$)(^Group$)

*
* @return The type of value that appears in the Grantee object:
* <code>Canonical</code>: Either the canonical user ID for an AWS
* account or an origin access identity for an Amazon CloudFront
* distribution. <important>A canonical user ID is not the same as
an AWS
* account number.</important> <code>Email</code>: The
* registered email address of an AWS account.
* <code>Group</code>: One of the following predefined Amazon S3
* groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or
* <code>LogDelivery</code>.
*/
public String getGranteeType() {
 return granteeType;
}

/**
* The type of value that appears in the Grantee object:
* <code>Canonical</code>: Either the canonical user ID for an AWS
* account or an origin access identity for an Amazon CloudFront
* distribution. <important>A canonical user ID is not the same as an AWS
* account number.</important> <code>Email</code>: The
* registered email address of an AWS account.
* <code>Group</code>: One of the following predefined Amazon S3
* groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>,
or
* <code>LogDelivery</code>.
* <p>
* Constraints:

* Pattern: (^Canonical$)(^Email$)(^Group$)

*
* @param granteeType The type of value that appears in the Grantee object:
* <code>Canonical</code>: Either the canonical user ID for an AWS
* account or an origin access identity for an Amazon CloudFront
* distribution. <important>A canonical user ID is not the same as an AWS

```

```

* account number.</important> <code>Email</code>: The
* registered email address of an AWS account.
* <code>Group</code>: One of the following predefined Amazon S3
* groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or
* <code>LogDelivery</code>.
*/
public void setGranteeType(String granteeType) {
 this.granteeType = granteeType;
}

/**
 * The type of value
that appears in the Grantee object:
 * <code>Canonical</code>: Either the canonical user ID for an AWS
 * account or an origin access identity for an Amazon CloudFront
 * distribution. <important>A canonical user ID is not the same as an AWS
 * account number.</important> <code>Email</code>: The
 * registered email address of an AWS account.
 * <code>Group</code>: One of the following predefined Amazon S3
 * groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or
 * <code>LogDelivery</code>.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 * <p>
 * Constraints:

 * Pattern: (^Canonical$)|(^Email$)|(^Group$)

 *
 * @param granteeType The type of value that appears in the Grantee object:
 * <code>Canonical</code>: Either the canonical user ID for an AWS
 * account or an origin access
identity for an Amazon CloudFront
 * distribution. <important>A canonical user ID is not the same as an AWS
 * account number.</important> <code>Email</code>: The
 * registered email address of an AWS account.
 * <code>Group</code>: One of the following predefined Amazon S3
 * groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or
 * <code>LogDelivery</code>.
 *
 * @return A reference to this updated object so that method calls can be chained
 * together.
 */
public Permission withGranteeType(String granteeType) {
 this.granteeType = granteeType;
 return this;
}

/**
 * The AWS user or group that you want to have access to transcoded files

```

```

* and playlists. To identify the user or group, you can specify the
* canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the
registered email address of an AWS
* account, or a predefined Amazon S3 group.
* <p>
* Constraints:

* Length: 1 - 255

*
* @return The AWS user or group that you want to have access to transcoded files
* and playlists. To identify the user or group, you can specify the
* canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS
* account, or a predefined Amazon S3 group.
*/
public String getGrantee() {
 return grantee;
}

/**
* The AWS user or group that you want to have access to transcoded files
* and playlists. To identify the user or group, you can specify the
* canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS
* account, or a predefined Amazon S3 group.
* <p>
* Constraints:

* Length: 1 - 255

*
* @param grantee The AWS user or group that you want to have access to transcoded files
* and playlists. To identify the user or group, you can specify the
* canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS
* account, or a predefined Amazon S3 group.
*/
public void setGrantee(String grantee) {
 this.grantee = grantee;
}

/**
* The AWS user or group that you want to have access to transcoded files
* and playlists. To identify the user or group, you can specify the
* canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS
* account, or a predefined Amazon S3 group.
* <p>
* Returns a reference to this object so that method calls can

```

be chained together.

```
* <p>
* Constraints:

* Length: 1 - 255

*
* @param grantee The AWS user or group that you want to have access to transcoded files
* and playlists. To identify the user or group, you can specify the
* canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS
* account, or a predefined Amazon S3 group.
*
* @return A reference to this updated object so that method calls can be chained
* together.
*/
public Permission withGrantee(String grantee) {
 this.grantee = grantee;
 return this;
}

/**
 * The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include: <code>READ</code>: The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds
to the Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
 * <p>
 * Constraints:

 * Length: 0 - 30

 *
 * @return The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include: <code>READ</code>: The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds to the Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL
for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
```

```

*/
public java.util.List<String> getAccess() {
 if (access == null) {
 access = new com.amazonaws.internal.ListWithAutoConstructFlag<String>();
 access.setAutoConstruct(true);
 }
 return access;
}

/**
 * The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include: <code>READ</code>: The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds to the
Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
 * <p>
 * Constraints:

 * Length: 0 - 30

 *
 * @param access The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include: <code>READ</code>: The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds to the Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL
for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
 */
public void setAccess(java.util.Collection<String> access) {
 if (access == null) {
 this.access = null;
 return;
 }
 com.amazonaws.internal.ListWithAutoConstructFlag<String> accessCopy = new
com.amazonaws.internal.ListWithAutoConstructFlag<String>(access.size());
 accessCopy.addAll(access);
 this.access = accessCopy;
}

```



```

}

/**
 * The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include:
<code>READ</code>: The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds to the Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
 * <p>
 * Returns a reference to this object so that method calls can be chained together.
 * <p>
 * Constraints:

 * Length: <code>0 - 30</code>

 *
 * @param access The permission that you want to give to the AWS user that is listed in
 * Grantee. Valid values include: <code>READ</code>:
The grantee
 * can read the thumbnails and metadata for thumbnails that Elastic
 * Transcoder adds to the Amazon S3 bucket.
 * <code>READ_ACP</code>: The grantee can read the object ACL for
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the
 * thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
 * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
 * WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
 * to the Amazon S3 bucket.
 *
 * @return A reference to this updated object so that method calls can be chained
 * together.
 */
public Permission withAccess(String... access) {
 if (getAccess() == null) setAccess(new java.util.ArrayList<String>(access.length));
 for (String
value : access) {
 getAccess().add(value);
 }
 return this;
}
}

/**
 * The permission that you want to give to the AWS user that is listed in

```

```

* Grantee. Valid values include: <code>READ</code>: The grantee
* can read the thumbnails and metadata for thumbnails that Elastic
* Transcoder adds to the Amazon S3 bucket.
* <code>READ_ACP</code>: The grantee can read the object ACL for
* thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
* <code>WRITE_ACP</code>: The grantee can write the ACL for the
* thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
* <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
* WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
* to the Amazon S3 bucket.
* <p>
* Returns a reference to this object so that method calls can be chained together.
* <p>
*
Constraints:

* Length: 0 - 30

*
* @param access The permission that you want to give to the AWS user that is listed in
* Grantee. Valid values include: <code>READ</code>: The grantee
* can read the thumbnails and metadata for thumbnails that Elastic
* Transcoder adds to the Amazon S3 bucket.
* <code>READ_ACP</code>: The grantee can read the object ACL for
* thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
* <code>WRITE_ACP</code>: The grantee can write the ACL for the
* thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.
* <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and
* WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds
* to the Amazon S3 bucket.
*
* @return A reference to this updated object so that
method calls can be chained
* together.
*/
public Permission withAccess(java.util.Collection<String> access) {
 if (access == null) {
 this.access = null;
 } else {
 com.amazonaws.internal.ListWithAutoConstructFlag<String> accessCopy = new
com.amazonaws.internal.ListWithAutoConstructFlag<String>(access.size());
 accessCopy.addAll(access);
 this.access = accessCopy;
 }

 return this;
}

/**
* Returns a string representation of this object; useful for testing and

```

```

* debugging.
*
* @return A string representation of this object.
*
* @see java.lang.Object#toString()
*/
@Override
public String toString() {
 StringBuilder sb = new StringBuilder();
 sb.append("{}");
 if (getGranteeType() != null) sb.append("GranteeType: " + getGranteeType() + ",");
 if (getGrantee() != null) sb.append("Grantee: " + getGrantee() + ",");

 if (getAccess() != null) sb.append("Access: " + getAccess());
 sb.append("{}");
 return sb.toString();
}

@Override
public int hashCode() {
 final int prime = 31;
 int hashCode = 1;

 hashCode = prime * hashCode + ((getGranteeType() == null) ? 0 : getGranteeType().hashCode());
 hashCode = prime * hashCode + ((getGrantee() == null) ? 0 : getGrantee().hashCode());
 hashCode = prime * hashCode + ((getAccess() == null) ? 0 : getAccess().hashCode());
 return hashCode;
}

@Override
public boolean equals(Object obj) {
 if (this == obj) return true;
 if (obj == null) return false;

 if (obj instanceof Permission == false) return false;
 Permission other = (Permission)obj;

 if (other.getGranteeType() == null ^ this.getGranteeType() == null) return false;
 if (other.getGranteeType() != null && other.getGranteeType().equals(this.getGranteeType())
== false) return false;
 if (other.getGrantee() == null ^ this.getGrantee() == null) return false;
 if (other.getGrantee() != null && other.getGrantee().equals(this.getGrantee()) == false) return false;
 if (other.getAccess() == null ^ this.getAccess() == null) return false;
 if (other.getAccess() != null && other.getAccess().equals(this.getAccess()) == false) return false;
 return true;
}
}
}

```

# 1.354 hadoop-auth 2.6.0

# 1.355 htrace-core 3.0.4

# 1.356 httpcomponents-core 4.4.12

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# 1.357 commons-configuration2 2.1.1

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# 1.375 reflections 0.9.9

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```
/*
 * The reflection project, is collection of reflection tools I've picked up
 * along the way, use it wisely!
 *
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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/tools/BidirectionalActionImpl.java
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/extractor/ExtractionManager.java
*
/opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/exceptions/WrongParameterType.java
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/annotations/ReflectiveInitialization.java
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/hierarchy/TypeHierarchy.java
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/injector/AnnotatableInjector.java
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
jar/com/nu/art/reflection/tools/ART_Tools.java
* /opt/ws_local/PERMITS_SQL/1010092594_1591901168.09/0/reflection-0-9-9-sources-
```



jar/com/nu/art/reflection/injector/InjectionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/utils/GenericMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/extractor/AnnotatableExtractor.java  
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jar/com/nu/art/reflection/classLoader/AbsClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/exceptions/ConstructorNotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/exceptions/ClassLoaderCyclicException.java  
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jar/com/nu/art/reflection/exceptions/ClassInstantiationException.java  
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jar/com/nu/art/reflection/exceptions/MethodNotFoundException.java  
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jar/com/nu/art/reflection/injector/Injector.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/classLoader/ClassesLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/utils/ClassInstantiationUtility.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/exceptions/MethodInvocationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/hierarchy/HierarchyModelNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/extractor/Extractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/hierarchy/HierarchyModel.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/utils/MethodInvocationUtility.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/tools/ReflectiveTools.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/classLoader/JarClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/classLoader/DirectoryClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/classLoader/ClassLoaderManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1010092594\_1591901168.09/0/reflection-0-9-9-sources-  
jar/com/nu/art/reflection/tools/BidirectionalAction.java

# 1.376 bouncycastle-fips 1.60

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Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

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<ul>

<li>Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!</li>

<li><a href="http://www.atlassian.com/">Atlassian Software Systems</a> donation of Confluence and JIRA licences.</li>

<li><a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.</li>

<li>TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.

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Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed

by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at:

<a href="http://www.flexiprovider.de/">http://www.flexiprovider.de/</a>

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<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764),

and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a></li>

<li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>

<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>

<li><a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>

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<ul>

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<li>Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation</li>

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- <li>Chris Southern &lt;CSouthern&#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.</li>
- <li>Sidney Markowitz &lt;sidney&#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>
- <li>Chris Kerr &lt;ckerr&#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>
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- <li>Shankar Srinivasan &lt;ssr002&#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>
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- <li>Joel Hockey &lt;joel.hockey&#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.</li>
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- <li>Justin Chapweske &lt;justin&#064;chapweske.com&gt; - ordering patch for Tiger message digest.</li>
- <li>John Serock &lt;jserock&#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
- <li>Sascha Weinreuter &lt;Sascha.Weinreuter&#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>

<li>Andre Wehnert &lt;aw5&#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>

<li>Luigi Lo Iacono &lt;lo\_iacono&#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>

<li>Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>

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<li>Sebastian Clau&szlig; &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>

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<li>Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.</li>

<li>Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>

<li>Jarek Gawor &lt;gawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>

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<li>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>

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<li>Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>

<li>Elmar Sonnenschein &lt;eso&#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>

<li>J&ouml;rn Schwarze &lt;JSchwarze&#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>

<li>Bryan Lovquist &lt;bkl&#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>

<li>Artem Portnoy &lt;Artem\_Portnoy&#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>

<li>Michael H&auml;usler &lt;haeusler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>

<li>Johan Seland &lt;johans&#064;netfonds.no&gt; - general toString for BigInteger class.</li>

<li>Johannes Nicolai &lt;johannes.nicolai&#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>

<li>Marc Doberva &lt;marc.doberva&#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>

<li>Jan Dvorak &lt;jan.dvorak&#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>

<li>Joe Cohen &lt;jcohen&#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>

<li>Chris Long&lt;aalong&#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>

<li>Hes Siemelink&lt;hes&#064;izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>

<li>Stefan Puiu&lt;stefanpuiuro&#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>

<li>Kaiser Yang &lt;kaiseryang&#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>

<li>Jiri Urbanec &lt;jiri.urbanec&#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>

<li>Justin Kolb &lt;jkolb&#064;pristx.com&gt;  
- patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>

<li>Ralf Hauser &lt;ralfhauser&#064;gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>

<li>Michal Dvorak &lt;M\_Dvorak&#064;kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>

<li>Klaus Greve Fiorentini &lt;Klaus&#064;cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>

<li>Olivier Refalo &lt;Olivier\_Refalo&#064;fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>

<li>Mariusz Bandola &lt;mariusz.bandola&#064;cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>

<li>Brien Oberstein &lt;brien.oberstein&#064;transacttools.net&gt;  
- patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>

<li>Ian Haywood &lt;ian&#064;haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>

<li>Jonathan Edwards &lt;s34gull&#064;mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>

<li>Andrew Thornton &lt;andrew&#064;caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>

<li>Gregor Leander &lt;gl&#064;bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>

<li>Antoon Bosselaers &lt;Antoon.Bosselaers&#064;esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>

<li>Peter Sylvester &lt;Peter.Sylvester&#064;edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug &lt;ummmmm&#064;myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes &lt;fstaes&#064;netconsult.be&gt;  
- improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of setttable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>

<li>W.R. Dittmer &lt;wdittmer&#064;cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto &lt;laperez&#064;banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>

<li>James Wright &lt;James\_Wright&#064;harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford &lt;jim&#064;muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

<li>Michael Hausler &lt;haeusler&#064;ponton-consulting.de&gt; - extra aliases for provider.</li>

<li>Sai Pullabhotla &lt;psai&#064;linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

<li>Joseph Miller &lt;joseph&#064;digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>

<li>Lars &lt;xyz&#064;sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen &lt;jeroen&#064;vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>



<li>Jun Sun &lt;JSun&#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>

<li>Petr Dukem &lt;pdukem&#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>

<li>Filipe Silva &lt;filipe.silva&#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>

<li>Alpesh Parmar &lt;alps&#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>

<li>Jay Gengelbach &lt;jgengelbach&#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class,  
patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>

<li>Doug &lt;doug&#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>

<li>Matthew Mundy &lt;mmundy1&#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>

<li>Tom Cargill &lt;cargill&#064profcon.com&gt; - spelling patch in provider.</li>

<li>Breitenstrom Christian &lt;C.Breitenstrom&#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>

<li>Zanotti Mirko &lt;zanotti&#064cad.it&gt; - patch to ordered equality test for X509Name.</li>

<li>Nicola Scandoni &lt;nscandoni&#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>

<li>Ville Skytt&#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling  
patch in PEMReader. JavaDoc clean up.</li>

<li>Bruce Gordon &lt;bruce.gordon&#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>

<li>Miles Whiteley &lt;Miles.Whiteley&#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>

<li>Albert Moliner &lt;amoliner&#064evintia.com&gt; - initial TSP implementation.</li>

<li>Carlos Lozano &lt;carlos&#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>

<li>Javier Delgado &lt;javi&#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>

<li>Joni Hahkala &lt;joni.hahkala&#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>

<li>Rolf Schillinger&lt;rolf&#064sir-wum.de&gt;  
- initial implementation of Attribute Certificate generation.</li>

<li>Sergey Bahtin &lt;Sergey\_Bahtin&#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>

<li>Franck Leroy &lt;Franck.Leroy&#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>

<li>Atsuhiko Yamanaka &lt;ymnk&#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>

<li>Nickolay Bolshakov &lt;tyrex&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>

<li>Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>

<li>Steve Mitchell &lt;mitchell&#064intertrust.com&gt;

- patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>

<li>Dirk Eisner &lt;D.Eisner@seeburger.de>; - initial implementation of ISO 78164-4 padding.</li>

<li>Julien Pasquier &lt;julienpasquier@free.fr>; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>

<li>Matteo &lt;matartuso@libero.it>; - sequence patch to ASN1Dump.</li>

<li>Andrew Paterson &lt;andrew.paterson@burnsecs.com>; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>

<li>Vladimir Molotkov &lt;vladimir.n.molotkov@intel.com>; - extensive provider exception handling compliance testing.</li>

<li>Florin Kollan &lt;adlocflo@web.de>; - fix to ElGamalKeyParameters equality testing.</li>

<li>Pavel Vassiliev &lt;paulvas@gmail.com>; - Initial GOST28147Mac implementation.</li>

<li>Tom Pesman &lt;tom@tlinux.net>; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>

<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@gmail.com>; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>

<li>Arndt Hasch &lt;Arndt.Hasch@maxence.de>; - additional fix for partial reading with new style PGP packets.</li>

<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.</li>

<li>David M. Lee &lt;dmlee@Crossroads.com>; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>

<li>Mike Dillon &lt;md5@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

<li>tu-vi cun &lt;t2cun@hotmail.com>; - patch for out of bounds problem in getDecoderStream method.</li>

<li>Chris Schultz &lt;cschultz@gmail.com>; - fix for InputStream constructor for X509V2AttributeCertificate.</li>

<li>David M. Lee &lt;dmlee@Crossroads.com>; - implementation assistance with streaming CMS classes.</li>

<li>Joel Rees &lt;rees@ddcom.co.jp>; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>

<li>Francesc Sau &lt;francesc.sau@partners.netfocus.es>; - micro fix for tsp Accuracy class.</li>

<li>Larry Bugbee &lt;bugbee@mac.com>; - initial ECNR implementation.</li>

<li>Remi Blancher &lt;Remi.Blancher@keynectis.com>; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>

<li>Brian O'Rourke &lt;brianorourke@gmail.com>; - patch for signature creation time override in OpenPGP.</li>

<li>Andreas Schwier &lt;andreas.schwier@cardcontact.de>; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>

<li>David Josse &lt;david.josse@transacttools.net>; - Patch for trailer function in version 2 signature packets.</li>

<li>Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp>; - RFC 3280 updates to policy processing in the CertPath

validator. Additional test data not covered by NIST.</li>  
<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>  
<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>  
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>  
<li>Olaf Keller, &lt;olaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>  
<li>J&ouml;rg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>  
<li>Karsten Ohme &lt;widerstand&#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>  
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.  
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>  
<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>  
<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>  
<li>Stefan Neusatz Guillen &lt;sneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>  
<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>  
<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>  
<li>Chris Viles &lt;chris\_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>  
<li>Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>  
<li>Lijun Liao &lt;https://github.com/xipki&gt; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li>  
<li>Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>  
<li>Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>  
<li>Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>

- <li>Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.</li>
- <li>Erik Tews &lt;e\_tews&#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>
- <li>Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
- <li>Frank Cornelis &lt;info&#064frankcornelis.be&gt;;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>
- <li>Rui Joaquim &lt;rjoaquim&#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
- <li>David Stacey &lt;DStacey&#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
- <li>Martijn Brinkers &lt;list&#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
- <li>Julius Davies &lt;juliusdavies&#064gmail.com&gt; - additional modes and algorithm support in PEMReader</li>
- <li>Matthias &lt;g&#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
- <li>Olga K&uuml;thler &lt;olga.kaethler&#064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
- <li>Germano Rizzo &lt;germano.rizzo&#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
- <li>N&uacute;ria Mar&iacute; &lt;numaa&#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
- <li>Janis Schuller &lt;js&#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
- <li>Michael Samblanet &lt;mike&#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
- <li>Mike StJohns &lt;mstjohns&#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
- <li>Ramon Keller &lt;ramon.keller&#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
- <li>Mark Nelson &lt;mark&#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
- <li>Eugene Golushkov &lt;eugene\_gff&#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
- <li>Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
- <li>Peter Knopp &lt;pknopp&#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
- <li>Jakub Gwozdz &lt;gwozdz&#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
- <li>Bartosz Malkowski &lt;bmalkow&#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
- <li>Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
- <li>Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
- <li>Andrey Pavlenko &lt;andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
- <li>J Ross Nicoll &lt;jrn&#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
- <li>Matthew Stevenson &lt;mavricknz&#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>

<li>Gabriele Contini &lt;gcontini@#064hotpop.com>; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>

<li>Roelof Naude &lt;roelof.naude@#064epiuse.com>; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>

<li>Patrick Peck &lt;peck@#064signaturen.at>; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>

<li>Michael LeMay &lt;lemaymd@#064lemaymd.com>; - identified problem with EAX [#BJA-93].</li>

<li>Alex Dupre &lt;ale@#064FreeBSD.org>; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]</li>

<li>Michael Schoene &lt;michael@#064sigrid-und-michael.de>; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>

<li>Ion Larra&ntilde;aga &lt;ilarra@#064s21sec.com>; fix to default partial packet generation in BCPGOutputStream.</li>

<li>Bob Kerns &lt;bob.kerns@#064positscience.com>; fix to hashCode for X509CertificateObject.</li>

<li>Stefan Meyer &lt;stefan.meyer@#064ewe.de>; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>

<li>Robert J. Moore &lt;Robert.J.Moore@#064allanbank.com>; speedups for OpenPGPCFB mode, clean room JCE patches.</li>

<li>Rui Hodai &lt;rui@#064po.ntts.co.jp>; speed ups for Camellia implementation, CamelliaLightEngine.</li>

<li>Emir Bucalovic &lt;emir.bucalovic@#064mail.com>; initial implementation of Grain-v1 and Grain-128.</li>

<li>Torbjorn Svensson &lt;tobbe79@#064gmail.com>; initial implementation of Grain-v1 and Grain-128.</li>

<li>Paul FitzPatrick &lt;bouncycastle\_pfitz@#064fitzpatrick.cc>; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>

<li>Henrik Andersson &lt;k.henrik.andersson@#064gmail.com>; addition of UniqueIssuerID to certificate generation.</li>

<li>Cagdas Cirit &lt;cagdasirit@#064gmail.com>; subjectAlternativeName fix for x509CertStoreSelector.</li>

<li>Harakiri &lt;harakiri\_23@#064yahoo.com>; datahandler patch for attached parts in SMIME signatures.</li>

<li>Pedro Henriques &lt;pmahenriques@#064gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAPEncoding.</li>

<li>Lothar Kimmeringer &lt;job@#064kimmeringer.de>; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>

<li>Richard Farr &lt;rfarr.se@#064gmail.com>; initial SRP-6a implementation.</li>

<li>Thomas Castiglione &lt;castiglione@#064au.ibm.com>; patch to encoding for CRMF OptionalValidity.</li>

<li>Elisabetta Romani &lt;eromani@#064sogei.it>; patch for recognising multiple counter signatures.</li>

<li>Robin Lundgren &lt;r737lundgren@#064gmail.com>; CMPCertificate constructor from X509CertificateStructure fix.</li>

<li>Petr Kadlec &lt;mormegil@#064centrum.cz>; fix to sign extension key and IV problem in HC-128, HC-256.</li>

<li>Andreas Antener &lt;antener\_a@#064gmx.ch>; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>

<li>Harendra Rawat &lt;hsrawat@#064yahoo.com>; fix for BERConstructedOctetString.</li>

<li>Rolf Lindemann &lt;lindemann@#064trustcenter.de>; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>

<li>Alex Artamonov &lt;alexart.home@#064gmail.com>; name look up patch for GOST-2001 parameters.</li>

- <li>Mike Lyons &lt;mlyons@layer7tech.com>; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
- <li>Chris Cole &lt;chris\_h\_cole@yahoo.com>; identified a problem handling null passwords when loading a BKS keystore.</li>
- <li>Tomas Krivanek &lt;tom@atack.cz>; added checking of Sender header to SignedMailValidator.</li>
- <li>Michael &lt;emfau@online.de>; correction of field error in getResponse method in CertRepMessage.</li>
- <li>Trevor Perrin &lt;trevor@cryptography.com>; addition of constant time equals to avoid possible timing attacks.</li>
- <li>Markus Kil&aring;s &lt;markus@primekey.se>; several enhancements to TimeStampResponseGenerator.</li>
- <li>Dario Novakovic &lt;darionis@yahoo.com>; fix for NPE when checking revocation reason on CRL without extensions.</li>
- <li>Michael Smith &lt;msmith@cbnco.com>; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
- <li>Andrea Zilio &lt;andrea.zilio@gmail.com>; fix for PEM password encryption of private keys.</li>
- <li>Alex Birkett &lt;alex@birkett.co.uk>; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
- <li>Wayne Grant &lt;waynedgrant@gmail.com>; additional OIDs for PKCS10 and certificate generation support.</li>
- <li>Frank Cornelis &lt;info@frankcornelis.be>; additional support classes for CADES, enhancements to OCSP classes.</li>
- <li>Jan Dittberner &lt;jan@dittberner.info>; addHeader patch for SMIME generator.</li>
- <li>Bob McGowan &lt;boab.mcgoo@btinternet.com>; patch to support different object and mgf digests in PSS signing.</li>
- <li>Ivo Matheis &lt;i.matheis@seeburger.de>; fix to padding verification in ISO-9796-1.</li>
- <li>Marco Sandrini &lt;nessche@gmail.com>; patch to add IV to ISO9797Alg3Mac.</li>
- <li>Alf Malf &lt;alfmalf@hotmail.com>; removal of unnecessary limit in CMSContentInfoParser.</li>
- <li>Alfonso Massa &lt;alfonso.massa@insiel.it>; contributions to CMS time stamp classes.</li>
- <li>Giacomo Boccardo &lt;gboccardo@unimaticspa.it>; initial work on CMSTimeStampedDataParser.</li>
- <li>Arnis Tartu &lt;arnis@ut.ee>; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
- <li>Janusz Sikocinski &lt;J.Sikocinski@gdzie.pl>; addition of Features subpacket support to OpenPGP API.</li>
- <li>Juri Hudolejev &lt;jhudolejev@gmail.com>; JavaDoc fix to CMSSignedDataParser.</li>
- <li>Liane Velten &lt;liane.velten@hjp-consulting.com>; fine tuning of code for DHParameters validation.</li>
- <li>Shawn Willden &lt;swillden@google.com>; additional functionality to PGPKKeyRing.</li>
- <li>Atanas Krachev &lt;akrachev@gmail.com>; added support for revocation signatures in OpenPGP.</li>
- <li>Mickael Laiking &lt;mickael.laiking@keynectis.com>; initial cut of EAC classes.</li>
- <li>Tim Buktu &lt;tbuktu@hotmail.com>; Initial implementation of NTRU signing and encryption.</li>
- <li>Bernd &lt;rbernd@gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.</li>
- <li>Steing Inge Morisbak &lt;stein.inge.morisbak@BEKK.no>; Test code for lower case Hex data in PEM headers.</li>
- <li>Andreas Schmid &lt;andreas.schmid@tngtech.com>; Additional expiry time check in PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC

classes.</li>

<li>Ignat Korchagin &lt;ignat.korchagin@#064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>

<li>Petar Petrov &lt;p.petrov@#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>

<li>Daniel Fitzpatrick &lt;daniel.f.nwr@#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>

<li>Andy Neilson &lt;Andy.Neilson@#064quest.com&gt;a further patches to deal with multiple providers and PEMReader.</li>

<li>Ted Shaw &lt;xiao.xj@#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>

<li>Eleriseth &lt;Eleriseth@#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.</li>

<li>Kenny Root &lt;kenny@#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>

<li>Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>

<li>Philip Clay &lt;pilf\_b@#064yahoo.com&gt; Initial implementation of J-PAKE.</li>

<li>Brian Carlstrom &lt;bdc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>

<li>Samuel Lid&eacute;n Borell &lt;samuel@#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>

<li>Sergio Demian Lerner &lt;sergiolerner@#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>

<li>Tim Whittington &lt;Tim.Whittington@#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>

<li>Marcus Lundblad &lt;marcus.lundblad@#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>

<li>Andrey Zhozhin &lt;zhozhin@#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>

<li>Sergey Tiunov &lt;t5555d@#064gmail.com&gt; initial cut of DVCS classes.</li>

<li>Damian Kolasa &lt;fatfredyy@#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>

<li>Ash Hughes &lt;ashley.hughes@#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>

<li>Daniel Hirscher &lt;dev@#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>

<li>Daniele Ricci &lt;daniele.athome@#064gmail.com&gt; initial implementation of EC keys for OpenpPGP and

RFC6637 support.</li>  
<li>Matti Aarnio &lt;matti.aarnio@methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>  
<li>Babak Najafi &lt;bnajafi@akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>  
<li>Eric Mueller &lt;eric.mueller@sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>  
<li>Mathias Herberts &lt;Mathias.Herberts@gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>  
<li>Daniil Ivanov &lt;daniil.ivanov@gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>  
<li>Daniele Grasso &lt;daniele.grasso86@gmail.com&gt; contributions to final Key calculation code for SRP6.</li>  
<li>Andrey Utkin &lt;cindrhc@gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>  
<li>Arnis Tartu &lt;arnis@ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>  
<li>AxelVDB &lt;axel-vdb@riseup.net&gt; initial implementation of Shacal2.</li>  
<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>  
<li>Waldemar Dick &lt;wdick@devmue.de&gt; code improvement in x500 ASN.1 package.</li>  
<li>Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.</li>  
<li>Alex Klyubin &lt;klyubin@google.com&gt; AlgorithmParameters check for EC key agreement.</li>  
<li>Jonathan Gillett &lt;gsoc.student@gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>  
<li>Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>  
<li>Kieran Miller &lt;kieran.miller@gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>  
<li>Oliver Ehli &lt;ehli@arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>  
<li>Daniel Heldt &lt;Daniel.Heldt@cryptovision.com&gt; Initial support for encodable state message digests</li>  
<li>Robert Bushman &lt;bouncycastle@traxel.com&gt; Clean up of DirectKeySignature example.</li>  
<li>Maurice Aarts &lt;aarts@riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>  
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>  
<li>KB Sriram &lt;mail\_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>  
<li>Marco Schulze &lt;marco@nightlabs.de&gt; Reported verification bug in GenericSigner.</li>  
<li>Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>  
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>  
<li>Tobias Wich &lt;tobias.wich@ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>  
<li>Hauke Mehrstens &lt;hauke@hauke-m.de&gt; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>  
<li>Daniel Zimmerman &lt;dmz@galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>



<li>Jens Kapitzka <a href="https://github.com/jkapitzka/schwarze-allianz.de">j.kapitzka@schwarze-allianz.de</a>; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>

<li>Johan Eklund <a href="https://github.com/johan-primekey">johan@primekey.se</a>; update to RFC 6960 for OCSPObjectIdentifiers.</li>

<li>nikosn <a href="https://github.com/nikosn">https://github.com/nikosn</a>; Fix to encoding of EC private keys to ensure encoding matches order length.</li>

<li>Axel von dem Bruch <a href="https://github.com/axel-vdb">axel-vdb@riseup.net</a>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>

<li>Derek Atkins <a href="https://github.com/derek-ihf">derek@ihf.com</a>; Documentation fixes to X9ObjectIdentifiers.</li>

<li>Peter Jr Halicky <a href="https://github.com/petohalicky">peto@halicky.sk</a>; Correction to notification/error message handling in SignedMailValidator.</li>

<li>Iartigue Pierre <a href="https://github.com/IartiguePierre">https://github.com/IartiguePierre</a>; Fix for counter signature SID in CMSSignedData.</li>

<li>Thomas Belot <a href="mailto:thomas.belot+BC@gmail.com">thomas.belot+BC@gmail.com</a>; initial CertPathLoopTest for demonstrating stack overflow issue.</li>

<li>Rich DiCroce <a href="https://github.com/rdicroce">https://github.com/rdicroce</a>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>

<li>Björn Kautler <a href="https://github.com/Vampire">https://github.com/Vampire</a>; Refinements to cert path validation (authority key addition, certificate order preservation).</li>

<li>Dominik Schürmann <a href="https://github.com/dschuermann">https://github.com/dschuermann</a>; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>

<li>Michael <a href="https://github.com/MSKnete">MSKnete@web.de</a>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>

<li>Tobias Wagner <a href="https://github.com/tobias-wagner">tobias.wagner@n-design.de</a>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>

<li>Sergio Giro <a href="https://github.com/sgiro">sgiro@google.com</a>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>

<li>bschuetter <a href="https://github.com/bschuetter">https://github.com/bschuetter</a>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>

<li>Leonard Dallot <a href="https://github.com/dallotTazTag">https://github.com/dallotTazTag</a>; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>

<li>Jan Willem Janssen <a href="https://github.com/j.w.janssen">j.w.janssen@bouncycastle.org</a>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>

<li>Sebastian Oerding <a href="mailto:sebastian.oerding@robotron.de">sebastian.oerding@robotron.de</a>; Fixes to toString() in x509.CertificatePolicies.</li>

<li>Kai Kramer <a href="https://github.com/kai-kramer">kai.kramer@gmail.com</a>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>

<li>Benoit Charles <a href="https://github.com/benoit-charles">benoit.charles@opentrust.com</a>; Fix for IES data length check on decryption.</li>

<li>Niko <a href="https://github.com/nfink95">nfink95@gmail.com</a>; fix to cast issue in getOutputSize() for ECIES.</li>

<li>akwizgran <a href="https://github.com/akwizgran">https://github.com/akwizgran</a>; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>

<li>Matthias Edelhoff <a href="https://github.com/MatthiasEdelhoff">Matthias.Edelhoff@cryptovision.com</a>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>

<li>Lukasz Deputat <a href="https://github.com/lukasz-deputat">lukasz.deputat@gmail.com</a>; Fixed bugs in TlsUtils read methods [#BJA-592].</li>

<li>Justin Ludwig <a href="https://github.com/justinludwig">https://github.com/justinludwig</a>; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>

<li>André Berenguel <a href="https://github.com/berenguel">https://github.com/berenguel</a>; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>

<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>

<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>

<li>William Glanton &lt;wglanton77&#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>

<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>

<li>Joseph Naegele &lt;jnaegele&#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>

<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointerException patch for WNAfUtil.</li>

<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>

<li>Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>

<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>

<li>Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>

<li>Artem Storozhuk &lt;storojs72&#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>

<li>Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.</li>

<li>Evangelos Karatsiolis &lt;ekaratsiolis&#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>

<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>

<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>

<li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>

<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>

<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>

<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>

<li>Artem Storozhuk &lt;storojs72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>

<li>Andreas Glaser &lt;andreas.glaser&#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>

<li>codeborne &lt;https://github.com/cbpx&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>

<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>

<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>

<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>

<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>

<li>str4d &lt;https://github.com/str4d&gt; initial implementation of

Blake2s</li>  
<li>Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>  
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>  
<li>chris mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>  
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>  
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>  
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>  
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>  
<li>Adam Vartanian &lt;https://github.com/flooeey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>  
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>  
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>  
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>  
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>  
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>  
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>  
<li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>  
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>  
<li>Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>  
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>  
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>  
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>  
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>  
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>  
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>  
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>  
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>  
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>  
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>  
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>  
<li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer@#064truesec.se&gt; Additional improvements to constant

- time comparisons.
- René Korthaus; <https://github.com/securitykernel>; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr; <https://github.com/THausherr>; Addition generic support for CMS/TSP functions.
- Gaylor Bosson; <https://github.com/Gilthoniel>; Initial implementation of Blake2xs.
- gaellalire; <https://github.com/gaellalire>; Patch for unprotected PGP private keys as SExpr.
- im-scooter; <https://github.com/im-scooter>; Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan; <https://github.com/hitchan>; Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche; <https://github.com/dbusche>; Argon2 optimisations.
- Daniel Heldt; <https://github.com/dheldt>; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe; <https://github.com/Xor-el>; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy; <https://github.com/Gsealy>; addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013; <https://github.com/aphuang2013>; update to path validation in EST service for ClearPath EST.
- Kevin Herron; <https://github.com/kevinherron>; Initial ChaCha20Poly1305 prototype.
- vkreml; <https://github.com/svkreml>; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt; <https://github.com/tobias-pentagrid>; Identification of 1.63 regression in ASN.1 parsing.

</ul>  
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## 1.377 slf4j-log4j 1.7.25

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o

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# 1.390 hadoop-annotations 3.2.1

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 */
```

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

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\*

\* Abstract: The main routine

\*

--\*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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- LZ4 source repository : <http://code.google.com/p/lz4/>

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\*/

For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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re2j 1.1

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

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.7/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper

v1.0.2

ember-bootstrap v0.5.1

ember-cli v1.13.13

ember-cli-app-version v1.0.0

ember-cli-babel v5.1.6

ember-cli-content-security-policy v0.4.0

ember-cli-dependency-checker v1.2.0

ember-cli-htmlbars v1.0.2

ember-cli-htmlbars-inline-precompile v0.3.1

ember-cli-ic-ajax v0.2.1

ember-cli-inject-live-reload v1.4.0

ember-cli-jquery-ui v0.0.20

ember-cli-qunit v1.2.1

ember-cli-release v0.2.8

ember-cli-shims v0.0.6

ember-cli-sri v1.2.1

ember-cli-test-loader v0.2.1

ember-cli-uglify v1.2.0

ember-d3 v0.1.0

ember-data v2.1.0

ember-disable-proxy-controllers v1.0.1

ember-export-application-global v1.0.5

ember-load-initializers v0.1.7

ember-qunit v0.4.16

ember-qunit-notifications v0.1.0

ember-resolver v2.0.3

ember-spin-spinner v0.2.3

ember-truth-helpers v1.2.0

jquery v2.1.4  
jquery-ui v1.11.4  
loader.js v3.3.0  
momentjs v2.10.6  
qunit v1.19.0  
select2 v4.0.0  
snippet-ss v1.11.0  
spin.js v2.3.2  
Azure Data Lake Store - Java client SDK 2.0.11  
JCodings 1.0.8  
Joni 2.1.2  
Mockito 1.8.5  
JUL to SLF4J bridge  
1.7.25  
SLF4J API Module 1.7.25  
SLF4J LOG4J-12 Binding 1.7.25

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.3.1.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

Apache HBase - Server which contains JQuery minified javascript library version 1.8.3

Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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For:

oj! Algorithms - version 43.0

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For:

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js

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For:

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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Java Servlet API 3.1.0

servlet-api 2.5

jsp-api 2.1

jsr311-api 1.1.1

Glassfish Jasper 6.1.14

Servlet Specification 2.5 API 6.1.14

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For: `hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java` and  
`hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java`

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\*  
\* Abstract: The main routine  
\*  
--\*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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`hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js`

`hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.7/`

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper

v1.0.2

ember-bootstrap v0.5.1

ember-cli v1.13.13

ember-cli-app-version v1.0.0

ember-cli-babel v5.1.6

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ember-cli-dependency-checker v1.2.0

ember-cli-htmlbars v1.0.2

ember-cli-htmlbars-inline-precompile v0.3.1

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ember-cli-jquery-ui v0.0.20  
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ember-cli-release v0.2.8  
ember-cli-shims v0.0.6  
ember-cli-sri v1.2.1  
ember-cli-test-loader v0.2.1  
ember-cli-uglify v1.2.0  
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ember-export-application-global v1.0.5  
ember-load-initializers v0.1.7  
ember-qunit v0.4.16  
ember-qunit-notifications v0.1.0  
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ember-truth-helpers v1.2.0  
jquery v2.1.4  
jquery-ui v1.11.4  
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qunit v1.19.0  
select2 v4.0.0  
snippet-ss v1.11.0  
spin.js v2.3.2  
Azure Data Lake Store - Java client SDK 2.0.11  
JCodings 1.0.8  
Joni 2.1.2  
Mockito 1.8.5  
JUL to SLF4J bridge  
1.7.25  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.3.1.min.js  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery  
Apache HBase - Server which contains JQuery minified javascript library version 1.8.3  
Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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Java Servlet API 3.1.0

servlet-api 2.5

jsp-api 2.1

jsr311-api 1.1.1

Glassfish Jasper 6.1.14

Servlet Specification 2.5 API 6.1.14

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\*

\* Abstract: The main routine

\*

--\*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.7/  
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css  
bootstrap v3.3.6  
broccoli-asset-rev v2.4.2  
broccoli-funnel v1.0.1  
datatables v1.10.8  
em-helpers v0.5.13  
em-table v0.1.6  
ember v2.2.0  
ember-array-contains-helper  
v1.0.2  
ember-bootstrap v0.5.1  
ember-cli v1.13.13  
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ember-cli-babel v5.1.6  
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ember-cli-test-loader v0.2.1  
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loader.js v3.3.0  
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qunit v1.19.0  
select2 v4.0.0  
snippet-ss v1.11.0  
spin.js v2.3.2  
Azure Data Lake Store - Java client SDK 2.0.11  
JCodings 1.0.8  
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Mockito 1.8.5  
JUL to SLF4J bridge  
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Apache HBase - Server which contains JQuery minified javascript library version 1.8.3

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Java Servlet API 3.1.0

servlet-api 2.5

jsp-api 2.1

jsr311-api 1.1.1

Glassfish Jasper 6.1.14

Servlet Specification 2.5 API 6.1.14

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grizzly-framework 2.2.21

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- \* <https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java>

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- \* HOMEPAGE:
- \* <https://code.google.com/p/jbzip2/>

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- \* HOMEPAGE:
  - \* <http://www.jcraft.com/jzlib/>

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  - \* license/LICENSE.compress-lzf.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/ning/compress>

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- \* LICENSE:
  - \* license/LICENSE.lz4.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/jpountz/lz4-java>

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- \* HOMEPAGE:
  - \* <https://github.com/jponge/lzma-java>

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\* <http://code.google.com/p/protobuf/>

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\* <http://www.bouncycastle.org/>

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\* <http://logging.apache.org/log4j/>

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.  
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\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

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\* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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# 1.416 joda-time 2.1

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## 1.442 hive-jdbc 2.1.1

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## 1.447 hadoop-client 2.6.0

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\* Abstract: The main

routine

\*

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Apache Hadoop

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The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written by [mortbay.org](http://mortbay.org).

Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

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ASM: a very small and fast Java bytecode manipulation framework

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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For

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utis/cJSON.[ch]:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.\* (css and js files)  
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java  
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

com.aliyun:aliyun-java-sdk-core:3.4.0  
com.aliyun:aliyun-java-sdk-ecs:4.2.0  
com.aliyun:aliyun-java-sdk-ram:3.0.0  
com.aliyun:aliyun-java-sdk-sts:3.0.0  
com.aliyun.oss:aliyun-sdk-oss:3.4.1  
com.amazonaws:aws-java-sdk-bundle:1.11.563  
com.cedarsoftware:java-util:1.9.0  
com.cedarsoftware:json-io:2.5.1  
com.fasterxml.jackson.core:jackson-annotations:2.9.9  
com.fasterxml.jackson.core:jackson-core:2.9.9  
com.fasterxml.jackson.core:jackson-databind:2.9.9.2  
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:2.9.9

com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:2.9.9  
com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.9.9  
com.fasterxml.uuid:java-uuid-generator:3.1.4  
com.fasterxml.woodstox:woodstox-core:5.0.3  
com.github.davidmoten:rxjava-extras:0.8.0.17  
com.github.stephenc.jcip:jcip-annotations:1.0-1  
com.google:guice:4.0  
com.google:guice-servlet:4.0  
com.google.api.grpc:proto-google-common-protos:1.0.0  
com.google.code.gson:2.2.4  
com.google.errorprone:error\_prone\_annotations:2.2.0  
com.google.j2objc:j2objc-annotations:1.1  
com.google.json-simple:json-simple:1.1.1  
com.google.guava:failureaccess:1.0  
com.google.guava:guava:20.0  
com.google.guava:guava:27.0-jre  
com.google.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava  
com.microsoft.azure:azure-storage:7.0.0  
com.nimbusds:nimbus-jose-jwt:4.41.1  
com.squareup.okhttp:okhttp:2.7.5  
com.squareup.okio:okio:1.6.0  
com.zaxxer:HikariCP-java7:2.4.12  
commons-beanutils:commons-beanutils:1.9.3  
commons-cli:commons-cli:1.2  
commons-codec:commons-codec:1.11  
commons-collections:commons-collections:3.2.2  
commons-daemon:commons-daemon:1.0.13  
commons-io:commons-io:2.5  
commons-lang:commons-lang:2.6  
commons-logging:commons-logging:1.1.3  
commons-net:commons-net:3.6  
de.ruedigermoeller:fst:2.50  
io.grpc:grpc-api:1.26.0  
io.grpc:grpc-context:1.26.0  
io.grpc:grpc-core:1.26.0  
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io.grpc:grpc-stub:1.26.0  
io.netty:netty:3.10.6.Final  
io.netty:netty-all:4.1.42.Final  
io.netty:netty-buffer:4.1.27.Final  
io.netty:netty-codec:4.1.27.Final  
io.netty:netty-codec-http:4.1.27.Final  
io.netty:netty-codec-http2:4.1.27.Final  
io.netty:netty-codec-socks:4.1.27.Final  
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io.netty:netty-handler:4.1.27.Final

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io.netty:netty-resolver:4.1.27.Final  
io.netty:netty-transport:4.1.27.Final  
io.opencensus:opencensus-api:0.12.3  
io.opencensus:opencensus-contrib-grpc-metrics:0.12.3  
io.reactivex:rxjava:1.3.8  
io.reactivex:rxjava-string:1.1.1  
io.reactivex:rxnetty:0.4.20  
io.swagger:swagger-annotations:1.5.4  
javax.inject:javax.inject:1  
log4j:log4j:1.2.17  
net.java.dev.jna:jna:5.2.0  
net.minidev:accessors-smart:1.2  
net.minidev:json-smart:2.3  
org.apache.avro:avro:1.7.7  
org.apache.commons:commons-collections4:4.2  
org.apache.commons:commons-compress:1.19  
org.apache.commons:commons-configuration2:2.1.1  
org.apache.commons:commons-csv:1.0  
org.apache.commons:commons-digester:1.8.1  
org.apache.commons:commons-lang3:3.7  
org.apache.commons:commons-math3:3.1.1  
org.apache.commons:commons-text:1.4  
org.apache.commons:commons-validator:1.6  
org.apache.curator:curator-client:2.13.0  
org.apache.curator:curator-framework:2.13.0  
org.apache.curator:curator-recipes:2.13.0  
org.apache.geronimo.specs:geronimo-jcache\_1.0\_spec:1.0-alpha-1  
org.apache.hbase:hbase-annotations:1.4.8  
org.apache.hbase:hbase-client:1.4.8  
org.apache.hbase:hbase-common:1.4.8  
org.apache.hbase:hbase-protocol:1.4.8  
org.apache.htrace:htrace-core:3.1.0-incubating  
org.apache.htrace:htrace-core4:4.1.0-incubating  
org.apache.httpcomponents:httpClient:4.5.6  
org.apache.httpcomponents:httpcore:4.4.10  
org.apache.kafka:kafka-clients:2.4.0  
org.apache.kerby:kerb-admin:1.0.1  
org.apache.kerby:kerb-client:1.0.1  
org.apache.kerby:kerb-common:1.0.1  
org.apache.kerby:kerb-core:1.0.1  
org.apache.kerby:kerb-crypto:1.0.1  
org.apache.kerby:kerb-identity:1.0.1  
org.apache.kerby:kerb-server:1.0.1  
org.apache.kerby:kerb-simplekdc:1.0.1  
org.apache.kerby:kerb-util:1.0.1  
org.apache.kerby:kerby-asn1:1.0.1  
org.apache.kerby:kerby-config:1.0.1



org.apache.kerby:kerby-pkix:1.0.1  
org.apache.kerby:kerby-util:1.0.1  
org.apache.kerby:kerby-xdr:1.0.1  
org.apache.kerby:token-provider:1.0.1  
org.apache.yetus:audience-annotations:0.5.0  
org.apache.zookeeper:zookeeper:3.4.13  
org.codehaus.jackson:jackson-core-asl:1.9.13  
org.codehaus.jackson:jackson-jaxrs:1.9.13  
org.codehaus.jackson:jackson-mapper-asl:1.9.13  
org.codehaus.jackson:jackson-xc:1.9.13  
org.codehaus.jettison:jettison:1.1  
org.eclipse.jetty:jetty-annotations:9.3.27.v20190418  
org.eclipse.jetty:jetty-http:9.3.27.v20190418  
org.eclipse.jetty:jetty-io:9.3.27.v20190418  
org.eclipse.jetty:jetty-jndi:9.3.27.v20190418  
org.eclipse.jetty:jetty-plus:9.3.27.v20190418  
org.eclipse.jetty:jetty-security:9.3.27.v20190418  
org.eclipse.jetty:jetty-server:9.3.27.v20190418  
org.eclipse.jetty:jetty-servlet:9.3.27.v20190418  
org.eclipse.jetty:jetty-util:9.3.27.v20190418  
org.eclipse.jetty:jetty-util-ajax:9.3.27.v20190418  
org.eclipse.jetty:jetty-webapp:9.3.27.v20190418  
org.eclipse.jetty:jetty-xml:9.3.27.v20190418  
org.eclipse.jetty.websocket:javax-websocket-client-impl:9.3.27.v20190418  
org.eclipse.jetty.websocket:javax-websocket-server-impl:9.3.27.v20190418  
org.ehcache:ehcache:3.3.1  
org.lz4:lz4-java:1.6.0  
org.objenesis:objenesis:2.6  
org.xerial.snappy:snappy-java:1.0.5  
org.yaml:snakeyaml:1.16  
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

-----  
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BSD 2-Clause  
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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}  
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.3-1  
dnsjava:dnsjava:2.1.7  
org.codehaus.woodstox:stax2-api:3.1.4

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3-Clause

-----

hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/\*  
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc  
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h  
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk\_crc32\_x86.c  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js  
leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0  
com.google.protobuf:protobuf-java:3.6.1  
com.google.re2j:re2j:1.1  
com.jcraft:jsch:0.1.54  
com.thoughtworks.paranamer:paranamer:2.3  
javax.activation:javax.activation-api:1.2.0  
org.fusesource.leveldbjni:leveldbjni-all:1.8  
org.jline:jline:3.9.0  
org.hamcrest:hamcrest-core:1.3  
org.ow2.asm:asm:5.0.4  
org.ow2.asm:asm-commons:6.0  
org.ow2.asm:asm-tree:6.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.4.1.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css  
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/\*  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

bootstrap  
v3.3.6  
broccoli-asset-rev v2.4.2  
broccoli-funnel v1.0.1  
datatables v1.10.8  
em-helpers v0.5.13  
em-table v0.1.6  
ember v2.2.0  
ember-array-contains-helper v1.0.2  
ember-bootstrap v0.5.1  
ember-cli v1.13.13  
ember-cli-app-version v1.0.0  
ember-cli-babel v5.1.6  
ember-cli-content-security-policy v0.4.0  
ember-cli-dependency-checker v1.2.0  
ember-cli-htmlbars v1.0.2  
ember-cli-htmlbars-inline-precompile v0.3.1  
ember-cli-ic-ajax v0.2.1  
ember-cli-inject-live-reload v1.4.0  
ember-cli-jquery-ui v0.0.20  
ember-cli-qunit v1.2.1  
ember-cli-release v0.2.8  
ember-cli-shims  
v0.0.6  
ember-cli-sri v1.2.1  
ember-cli-test-loader v0.2.1  
ember-cli-uglify v1.2.0  
ember-d3 v0.1.0  
ember-data v2.1.0  
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ember-export-application-global v1.0.5  
ember-load-initializers v0.1.7  
ember-qunit v0.4.16  
ember-qunit-notifications v0.1.0  
ember-resolver v2.0.3  
ember-spin-spinner v0.2.3  
ember-truth-helpers v1.2.0  
jquery v2.1.4  
jquery-ui v1.11.4  
loader.js v3.3.0

momentjs v2.10.6  
qunit v1.19.0  
select2 v4.0.0  
snippet-ss v1.11.0  
spin.js v2.3.2

com.microsoft.azure:azure-cosmosdb:2.4.5  
com.microsoft.azure:azure-cosmosdb-commons:2.4.5  
com.microsoft.azure:azure-cosmosdb-direct:2.4.5  
com.microsoft.azure:azure-cosmosdb-gateway:2.4.5  
com.microsoft.azure:azure-data-lake-store-sdk:2.3.3  
com.microsoft.azure:azure-keyvault-core:1.0.0  
com.microsoft.sqlserver:mssql-jdbc:6.2.1.jre7  
org.bouncycastle:bcpkix-jdk15on:1.60  
org.bouncycastle:bcprov-jdk15on:1.60  
org.checkerframework:checker-qual:2.5.2  
org.codehaus.mojo:animal-sniffer-annotations:1.17  
org.jruby.jcodings:jcodings:1.0.13  
org.jruby.joni:joni:2.1.2  
org.slf4j:jul-to-slf4j:jar:1.7.25  
org.ojalgo:ojalgo:43.0:compile  
org.slf4j:jul-to-slf4j:1.7.25  
org.slf4j:slf4j-api:1.7.25  
org.slf4j:slf4j-log4j12:1.7.25

## CDDL

1.1 + GPLv2 with classpath exception

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com.sun.jersey:jersey-client:1.19  
com.sun.jersey:jersey-core:1.19  
com.sun.jersey:jersey-guice:1.19  
com.sun.jersey:jersey-json:1.19  
com.sun.jersey:jersey-server:1.19  
com.sun.jersey:jersey-servlet:1.19  
com.sun.xml.bind:jaxb-impl:2.2.3-1  
javax.annotation:javax.annotation-api:1.3.2  
javax.servlet:javax.servlet-api:3.1.0  
javax.servlet.jsp:jsp-api:2.1  
javax.websocket:javax.websocket-api:1.0  
javax.ws.rs:jsr311-api:1.1.1  
javax.xml.bind:jaxb-api:2.2.11

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junit:junit:4.12

HSQL License

-----

org.hsqldb:hsqldb:2.3.4

JDOM License

-----

org.jdom:jdom:1.1

Public Domain

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aopalliance:aopalliance:1.0

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JUnit

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LZ4 - Fast LZ compression algorithm

Header File

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- LZ4 source repository : <http://code.google.com/p/lz4/>

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\* Alec Wysoker

\* Performance and memory usage improvement

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## 1.458 slf4j-log4j 1.7.25

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- web-common\_3\_1.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
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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
- 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
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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
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- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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- 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\_5.xsd
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- javaee\_web\_services\_1\_3.xsd
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## 1.472 jackson-module-jaxb-annotations 2.10.3

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@item

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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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@item

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@page

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@smallexample

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

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smallexample

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Ty Coon, President of Vice

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@heading END OF TERMS AND CONDITIONS  
@end iftex  
@ifinfo  
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@end ifinfo

@page  
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```
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and a brief idea of what it does.}
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```

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```
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```

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necessary. Here is a sample; alter the names:

@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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Version 2.1, February 1999

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Version 3, 29 June 2007

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## 1.476 jackson 2.10.3

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\*

\* Abstract: The main routine

\*

--\*/

For `src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}`,

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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re2j 1.1

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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bootstrap v3.3.6

broccoli-asset-rev v2.4.2  
broccoli-funnel v1.0.1  
datatables v1.10.8  
em-helpers v0.5.13  
em-table v0.1.6  
ember v2.2.0  
ember-array-contains-helper  
v1.0.2  
ember-bootstrap v0.5.1  
ember-cli v1.13.13  
ember-cli-app-version v1.0.0  
ember-cli-babel v5.1.6  
ember-cli-content-security-policy v0.4.0  
ember-cli-dependency-checker v1.2.0  
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ember-cli-htmlbars-inline-precompile v0.3.1  
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ember-cli-uglify v1.2.0  
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jquery v2.1.4  
jquery-ui v1.11.4  
loader.js v3.3.0  
momentjs v2.10.6  
qunit v1.19.0  
select2 v4.0.0  
snippet-ss v1.11.0  
spin.js v2.3.2  
Azure Data Lake Store - Java client SDK 2.0.11  
JCodings 1.0.8  
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Apache HBase - Server which contains JQuery minified javascript library version 1.8.3  
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servlet-api 2.5

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# 1.517 flume-ng-auth 1.9.0

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## 1.526 flume-ng-configuration 1.9.0

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## 1.527 hbase 2.1.0

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## 1.531 metrics 3.2.1

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## 1.534 hadoop-mapreduce-client-common

### 3.0.0

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 */
```

For `src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}`,

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

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

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\*/

For `hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-native/src/main/native/gtest`

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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## 1.538 hadoop-hdfs-client 3.0.0

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

```
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 */
```

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```
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\*/

For hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/gtest

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.542 hikaricp-java7 2.4.12

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# 1.546 hadoop-yarn-server-resourcemanager

## 3.0.0

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actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

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- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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\* Abstract: The main routine

\*

--\*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js  
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css  
bootstrap v3.3.6  
broccoli-asset-rev v2.4.2  
broccoli-funnel v1.0.1  
datatables v1.10.8  
em-helpers v0.5.13  
em-table v0.1.6  
ember v2.2.0  
ember-array-contains-helper  
v1.0.2  
ember-bootstrap v0.5.1  
ember-cli v1.13.13  
ember-cli-app-version v1.0.0  
ember-cli-babel v5.1.6  
ember-cli-content-security-policy v0.4.0  
ember-cli-dependency-checker v1.2.0  
ember-cli-htmlbars v1.0.2  
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ember-cli-sri v1.2.1  
ember-cli-test-loader v0.2.1  
ember-cli-uglify v1.2.0  
ember-d3 v0.1.0  
ember-data v2.1.0  
ember-disable-proxy-controllers v1.0.1  
ember-export-application-global v1.0.5  
ember-load-initializers v0.1.7  
ember-qunit v0.4.16  
ember-qunit-notifications v0.1.0  
ember-resolver v2.0.3  
ember-spin-spinner v0.2.3  
ember-truth-helpers v1.2.0  
jquery v2.1.4  
jquery-ui v1.11.4  
loader.js v3.3.0  
momentjs v2.10.6  
qunit v1.19.0  
select2 v4.0.0  
snippet-ss v1.11.0  
spin.js v2.3.2  
Azure Data Lake Store - Java client SDK 2.0.11  
JCodings 1.0.8  
Joni 2.1.2

Mockito 1.8.5  
JUL to SLF4J bridge  
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Apache HBase - Server which contains JQuery minified javascript library version 1.8.3  
Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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# 1.555 hadoop-yarn-server-applicationhistoryservice 3.0.0

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 */
```

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```
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 */
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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

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

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.559 hadoop-mapreduce-client-jobclient

### 3.0.0

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# 1.562 hadoop-yarn-common 3.0.0

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# 1.578 hadoop-yarn-server-nodemanager 2.6.0

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# 1.579 jetty-util 9.4.0.v20161208

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# 1.596 hadoop-common 3.0.0

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

```
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```

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```
/*
 LZ4 - Fast LZ compression algorithm
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For hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/gtest

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
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For:

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org.eclipse.jetty.toolchain:jetty-schemas

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Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# 1.615 netty-transport-native-epoll 4.1.48

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# 1.616 netty-transport-native-unix-common

## 4.1.48

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# 1.620 cxf-rt-frontend-jaxrs 3.3.6

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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/Util.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/HttpStream.java
*
 /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/Http1xStream.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
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```
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jar/com/squareup/okhttp/internal/ConnectionSpecSelector.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/RequestException.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/HttpUrl.java
*
/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/io/FileSystem.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/RouteException.java
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```
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jar/com/squareup/okhttp/internal/NamedRunnable.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Request.java
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*
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/opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Route.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/NameValuePairBlockReader.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/MediaType.java  
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/opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/Variant.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Authenticator.java  
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\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/Platform.java

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```

Found in path(s):

```
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/tls/TrustRootIndex.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/tls/AndroidTrustRootIndex.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/tls/RealTrustRootIndex.java
```

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```
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/Huffman.java
```

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Found in path(s):

```
*/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/Settings.java
*/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/Ping.java
*/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/OkHttpClient.java
*
/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/RouteSelector.java
*/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Dns.java
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 */
```

Found in path(s):

```
*/opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
```

jar/com/squareup/okhttp/internal/io/RealConnection.java  
\*  
/opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/ConnectionPool.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Connection.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/OptionalMethod.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/http/HttpEngine.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/tls/DistinguishedNameParser.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/tls/OkHostnameVerifier.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Headers.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/tls/CertificateChainCleaner.java  
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Found in path(s):

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/DiskLruCache.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/http/HeaderParser.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/framed/FrameWriter.java  
\*  
/opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/framed/FrameReader.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/framed/FramedStream.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-  
jar/com/squareup/okhttp/internal/framed/FramedConnection.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/HttpDate.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/Spdy3.java  
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\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Call.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Protocol.java  
\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/ConnectionSpec.java

\*

/opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Challenge.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/RealResponseBody.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/FormEncodingBuilder.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/Version.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/PushObserver.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/CertificatePinner.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/ResponseBody.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/CacheRequest.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/TlsVersion.java

\*

/opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Interceptor.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Callback.java

\* /opt/cola/permits/1097547722\_1602103998.89/0/okhttp-2-7-5-sources-1-



```
jar/com/squareup/okhttp/internal/Internal.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/RequestBody.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Credentials.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/HttpMethod.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/MultipartBuilder.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/CipherSuite.java
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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/RetryableSink.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Cache.java
```

## 1.631 commons-logging 1.2

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Found in path(s):

- \* /opt/cola/permits/1098211000\_1602271079.6/0/commons-logging-1-1-sources-1-jar/org/apache/commons/logging/impl/WeakHashtable.java

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- \* /opt/cola/permits/1098211000\_1602271079.6/0/commons-logging-1-1-sources-1-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/LogKitLogger.java
* /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
```

## 1.632 slf4j 1.7.26

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\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/MessageFormatter.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticMDCBinder.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/LoggerFactory.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticMarkerBinder.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MDCAdapter.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NamedLoggerBase.java

\*

/opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLogger.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/MDC.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/FormattingTuple.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/MarkerIgnoringBase.java

\* /opt/cola/permits/1110662284\_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MarkerFactoryBinder.java

```

* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/helpers/SubstituteLoggerFactory.java
*
/opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/Marker.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/Logger.java
*
/opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-
jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLogger.java
* /opt/cola/permits/1110662284_1606841983.34/0/slf4j-api-1-7-26-sources-2-jar/org/slf4j/ILoggerFactory.java

```

# 1.633 hadoop-yarn-server- applicationhistoryservice 2.6.0

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```

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```

\*/

Found in path(s):

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AHSView.java

\*

/opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/impl/pb/ApplicationFinishDataPBIImpl.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/TimelineWriter.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/security/TimelineAuthenticationFilterInitializer.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryClientService.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/EntityIdentifier.java

\*

/opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/impl/pb/ContainerFinishDataPBIImpl.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryManager.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/package-info.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ApplicationAttemptStartData.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/webapp/CrossOriginFilterInitializer.java

\*

/opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/FileSystemApplicationHistoryStore.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AHSWebApp.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ContainerHistoryData.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/TimelineStore.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ApplicationHistoryData.java

\*

/opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryWriter.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/TimelineReader.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ContainerStartData.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/timeline/security/authorize/TimelinePolicyProvider.java

\* /opt/cola/permits/1110784716\_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-

```

jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ApplicationAttemptHistoryData.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/impl/pb/ContainerStartDataPBImp.java
*
/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/NameValuePair.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/GenericObjectMapper.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/security/TimelineDelegationTokenSecretManagerService.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryReader.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/MemoryTimelineStore.java
*
/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/security/TimelineAuthenticationFilter.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryStore.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/security/TimelineACLsManager.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/ContainerPage.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AppPage.java
*
/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryServer.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/webapp/TimelineWebServices.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/JAXBContextResolver.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryManagerOnTimelineStore.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/TimelineDataManager.java
*
/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ApplicationAttemptFinishData.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/LevelDbTimelineStore.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/NullApplicationHistoryStore.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ApplicationStartData.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AHSWebServices.java
*

```



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/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AHSLogsPage.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/impl/pb/ApplicationAttemptStartDataPBIImpl.j
ava
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/impl/pb/ApplicationStartDataPBIImpl.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ContainerFinishData.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/timeline/webapp/CrossOriginFilter.java
*
/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/ApplicationHistoryManagerImpl.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/impl/pb/ApplicationAttemptFinishDataPBIImpl.
java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/MemoryApplicationHistoryStore.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AppAttemptPage.java
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/webapp/AHSController.java
*
/opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/applicationhistoryservice/records/ApplicationFinishData.java
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```
* /opt/cola/permits/1110784716_1606855236.31/0/hadoop-yarn-server-applicationhistoryservice-2-6-0-sources-1-
```

# 1.634 hadoop-yarn-server-resourcemanager

## 2.6.0

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```

Found in path(s):

```
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/YarnScheduler.java
*
/opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/security/AMRMTokenSecretManager.java
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/resource/ResourceType.java
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/amlauncher/ApplicationMasterLauncher.java
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/NewApplication.java
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/AdminService.java
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/AppsBlock.java
*
/opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/Recoverable.java
* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-
```

jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/AllocationFileLoaderService.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/NavBlock.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/CapacitySchedulerContext.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/RmController.java  
 \*  
 /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/RMStateUpdateAppAttemptEvent.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/RMStateStore.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/CapacitySchedulerConfiguration.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/CSAssignment.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/FairSchedulerLeafQueueInfo.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/CSQueue.java  
 \*  
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 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FairSchedulerConfiguration.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/ResourceScheduler.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/AboutBlock.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/AppBlock.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/ParentQueue.java  
 \*  
 /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/AboutPage.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/NodesPage.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/FairSchedulerAppsBlock.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/NodeType.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/security/RMContainerTokenSecretManager.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/RMWebApp.java  
 \*  
 /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
 jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/AppsBlockWithMetrics.java  
 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-

jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/RmView.java  
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jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/Allocation.java  
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jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/DefaultSchedulerPage.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/resource/Priority.java  
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jar/org/apache/hadoop/yarn/server/resourcemanager/security/ClientToAMTokenSecretManagerInRM.java  
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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/amlauncher/AMLauncher.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/CSQueueUtils.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/CapacitySchedulerPage.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/RMStateStoreFactory.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/SchedulerPageUtil.java  
\*  
/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/AppPage.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/ApplicationMasterService.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/MetricsOverviewTable.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/AllocationConfiguration.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/ContainerPreemptEvent.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/SchedulerApplicationAttempt.java  
\*  
/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/rmnode/RMNodeImpl.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/rmnode/RMNodeReconnectEvent.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/security/QueueACLsManager.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/SchedulerApplication.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-  
jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/RMStateUpdateAppEvent.java

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jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/CapacityOverTimePolicy.java
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jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/InMemoryReservationAllocation.java
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/opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/package-info.java
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* /opt/cola/permits/1110784729_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/MemoryRMStateStore.java
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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/metrics/AppAttemptFinishedEvent.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FSSchedulerNode.java

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\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainerImpl.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/LocalResourceInfo.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/attempt/event/RMAppAttemptContainerFinishedEvent.java

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\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/RMAppRunningOnNodeEvent.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/RMStateStoreEvent.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/RMAppRejectedEvent.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/event/AppAttemptRemovedSchedulerEvent.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/ContainerPreemptEventType.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/exceptions/ResourceOverCommitException.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/event/NodeUpdateSchedulerEvent.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/NodesListManager.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/Queue.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/metrics/ApplicationCreatedEvent.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/UsersInfo.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/capacity/CapacityHeadroomProvider.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/TimeBucketMetrics.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FSAppAttempt.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/CapacitySchedulerQueueInfo.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/security/DelegationTokenRenewer.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/CapacityReservationSystem.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/policies/DominantResourceFairnessPolicy.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/RMServerUtils.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/NoOverCommitPolicy.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/SchedulerNodeReport.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/policies/FifoPolicy.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainerFinishedEvent.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/RMAppManagerEventType.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/RMWebServices.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/PreemptableResourceScheduler.java

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 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/metrics/SystemMetricsPublisher.java  
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 /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/attempt/RMAppAttemptState.java  
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 /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/QueueManager.java  
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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/event/ContainerExpiredSchedulerEvent.java  
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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/security/NMTokenSecretManagerInRM.java  
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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/attempt/RMAppAttemptEventType.java  
\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/RMAppMoveEvent.java  
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\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/NodesListManagerEventType.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainerEventType.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/AppAttemptInfo.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/RMZKUtils.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FifoAppComparator.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/recovery/records/impl/pb/AMRMTOKENSecretManagerStatePBImpl.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/RMNMIInfo.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/FairSchedulerQueueInfo.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/SchedulerDynamicEditException.java

\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/AppsInfo.java

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 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmapp/attempt/event/RMAppAttemptRegistrationEvent.java  
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 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/SharingPolicy.java  
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 \* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/metrics/ApplicationACLsUpdatedEvent.java



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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/reservation/exceptions/PlanningQuotaException.java

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\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/webapp/dao/CapacitySchedulerLeafQueueInfo.java

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/opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FSQueueMetrics.java

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\* /opt/cola/permits/1110784729\_1606853562.17/0/hadoop-yarn-server-resourcemanager-2-6-0-sources-1-jar/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainerEvent.java

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```
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/amfilter/AmIpPrincipal.java
*
/opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/amfilter/AmIpServletRequestWrapper.java
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
```

```

jar/org/apache/hadoop/yarn/server/webproxy/amfilter/AmIpFilter.java
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/WebAppProxy.java
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/WebAppProxyServlet.java
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/WebAppProxyServer.java
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/AppReportFetcher.java
*
/opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/ProxyUriUtils.java
* /opt/cola/permits/1110784668_1606854921.43/0/hadoop-yarn-server-web-proxy-2-6-0-sources-1-
jar/org/apache/hadoop/yarn/server/webproxy/amfilter/AmFilterInitializer.java

```

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Found in path(s):

```
*/opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/BsonUndefined.java
```

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- \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionMessagesSentEvent.java
- \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/DefaultServer.java
- \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ClusterListener.java
- \*
  - /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/types/BasicBSONList.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/ServerDescription.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/MultiServerCluster.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/DefaultClusterableServerFactory.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ClusterOpeningEvent.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ClusterDescriptionChangedEvent.java
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  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ClusterListenerAdapter.java
  - \*
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    - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/netty/NettyStream.java
    - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-

jar/org/bson/json/JsonToken.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/json/JsonReader.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/BSONCallbackAdapter.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/BSONCallback.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/event/ClusterClosedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/CommandProtocol.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/ClusterDescription.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/codecs/ValueCodecProvider.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/SingleServerCluster.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/util/JSONSerializers.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/DefaultServerMonitor.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/BaseCluster.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/event/ConnectionMessageReceivedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/SocketStreamHelper.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/DefaultServerMonitorFactory.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/SaslAuthenticator.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/json/JsonWriter.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/types/StringRangeSet.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/EmptyBSONCallback.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/DB.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/codecs/BsonValueCodecProvider.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/ChangeEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/BasicBSONCallback.java

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```
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jar/com/mongodb/connection/netty/ReadTimeoutHandler.java
```

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```
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/configuration/Optional.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/BsonValueCodec.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/diagnostics/logging/package-info.java
*
```

/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/async/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/netty/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/conversions/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/configuration/CodecCache.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/configuration/CodecRegistries.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/DistinctIterable.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/assertions/package-info.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/MapReduceIterable.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/configuration/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/DistinctIterableImpl.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/result/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/operation/BsonArrayWrapper.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/assertions/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/ReturnDocument.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/AggregateIterable.java  
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```
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/internal/connection/SslHelper.java
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```
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/CursorType.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/Tag.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/MongoWriteConcernException.java
*
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/MongoNotPrimaryException.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/binding/AbstractReferenceCounted.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/TagSet.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/MongoNodeIsRecoveringException.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/MongoWriteException.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
```

jar/com/mongodb/connection/DefaultAuthenticator.java

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jar/com/mongodb/operation/CurrentOpOperation.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-

jar/com/mongodb/operation/FsyncUnlockOperation.java

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jar/com/mongodb/annotations/Beta.java

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jar/com/mongodb/annotations/ThreadSafe.java

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jar/com/mongodb/annotations/Immutable.java

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jar/com/mongodb/annotations/NotThreadSafe.java

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jar/com/mongodb/event/ServerOpeningEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/event/ServerMonitorListener.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/codecs/IterableCodecProvider.java  
\*

/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/event/ServerHeartbeatFailedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/event/ServerHeartbeatStartedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/event/ServerDescriptionChangedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/NoOpServerMonitorListener.java  
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jar/com/mongodb/event/ServerClosedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/NoOpServerListener.java  
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jar/com/mongodb/event/ServerListener.java

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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Indexes.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java

\*

/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/model/package-info.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/model/GridFSFile.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/TextSearchOptions.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/ValidationAction.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/internal/HexUtils.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/package-info.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/MongoGridFSException.java

\*

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/opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSBucket.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/model/GridFSUploadOptions.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/model/InsertOneOptions.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/model/IndexOptionDefaults.java
*
/opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/model/GridFSDownloadByNameOptions.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/model/ValidationOptions.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/model/ValidationLevel.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSFindIterable.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/client/gridfs/GridFSUploadStream.java
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jar/org/bson/util/CopyOnWriteMap.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-

jar/org/bson/util/AbstractCopyOnWriteMap.java

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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-

jar/com/mongodb/operation/RenameCollectionOperation.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-

jar/com/mongodb/operation/OperationHelper.java

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jar/com/mongodb/operation/UpdateUserOperation.java

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jar/com/mongodb/operation/DropDatabaseOperation.java

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jar/com/mongodb/operation/DropUserOperation.java

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jar/com/mongodb/MongoCollectionImpl.java

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jar/com/mongodb/DBCollection.java

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jar/org/bson/AbstractBsonReader.java  
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jar/org/bson/AbstractBsonWriter.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/operation/CreateCollectionOperation.java  
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jar/com/mongodb/client/model/Sorts.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Projections.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Filters.java

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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/BucketAutoOptions.java

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/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/types/Decimal128.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/BucketOptions.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/Decimal128Codec.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ServerHeartbeatSucceededEvent.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Field.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/IterableCodec.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Facet.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/BucketGranularity.java

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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/internal/connection/Pool.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/operation/MapReduceInlineResultsAsyncCursor.java
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/BasicDBObjectFactory.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/MongoURI.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/EncoderContext.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/InternalStreamConnectionInitializer.java  
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jar/com/mongodb/DBEncoderAdapter.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
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/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/MongoSocketReadException.java

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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/ShortCodec.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/DefaultDBCallback.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/binding/SingleServerBinding.java
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/opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/StringUtils.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/connection/ConnectionPool.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/MongoException.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/ReflectionDBObject.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/connection/PlainAuthenticator.java

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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DeleteManyModel.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/operation/ExplainHelper.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/MongoClientURI.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/AuthenticationMechanism.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/management/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/BulkWriteOptions.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/ServerCursor.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/BulkUpdateRequestBuilder.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/DefaultConnectionFactory.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/configuration/ChildCodecRegistry.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/Decoder.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/DefaultDBEncoder.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/util/ComputingMap.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/MongoServerException.java  
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/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/ObjectIdGenerator.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/DBEncoder.java  
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jar/com/mongodb/WriteConcernException.java  
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 jar/org/bson/types/Symbol.java  
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 jar/com/mongodb/RemoveRequest.java  
 \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
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 \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/package-info.java  
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 jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java  
 \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
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 jar/com/mongodb/MongoBatchCursorAdapter.java  
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jar/org/bson/codecs/configuration/CodecRegistry.java  
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jar/com/mongodb/MongoSocketWriteException.java  
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jar/org/bson/codecs/Encoder.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/operation/MapReduceStatistics.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/io/BasicOutputBuffer.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/json/JsonTokenType.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/client/model/InsertManyOptions.java  
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jar/com/mongodb/MongoCursorAdapter.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/DocumentToDBRefTransformer.java  
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jar/com/mongodb/event/ServerEventMulticaster.java  
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jar/com/mongodb/client/model/CreateViewOptions.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/ClientMetadataHelper.java  
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/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionRemovedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionAddedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionCheckedOutEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/operation/WriteConcernHelper.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionPoolWaitQueueEnteredEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/codecs/BsonTypeCodecMap.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionClosedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/operation/CreateViewOperation.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/Time.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionPoolWaitQueueExitedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionPoolClosedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/jndi/package-info.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/CommandEventMulticaster.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionCheckedInEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ServerMonitorEventMulticaster.java  
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/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DBCreateViewOptions.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/ConnectionOpenedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/jndi/MongoClientFactory.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/internal/connection/Java8SniSslHelper.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/internal/connection/SniSslHelper.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/MongoConfigurationException.java

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jar/com/mongodb/connection/Connection.java
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jar/com/mongodb/connection/AsyncConnection.java
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jar/com/mongodb/client/model/DeleteOneModel.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/BsonUndefinedCodec.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/WriteError.java
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*
/opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/UuidCodecProvider.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/codecs/UuidCodecHelper.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/connection/ExponentiallyWeightedMovingAverage.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/UuidRepresentation.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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*/
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */
```

Found in path(s):

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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/WriteConcern.java

\*

/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/selector/ReadPreferenceServerSelector.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/selector/PrimaryServerSelector.java

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jar/com/mongodb/connection/Protocol.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/org/bson/BsonJavaScript.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/DBCursor.java

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/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonDouble.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonInt64.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/RequestMessage.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/connection/ByteBufferBsonOutput.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonSymbol.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/operation/UserExistsOperation.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonString.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
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 \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonMaxKey.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonDocument.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/DefaultConnectionPool.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/KillCursorProtocol.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/Mongo.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonBinary.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/CommandMessage.java  
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/UpdateMessage.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/org/bson/BsonArray.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/connection/DeleteMessage.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java  
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jar/org/bson/BsonDocumentReader.java

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jar/com/mongodb/ReadConcernLevel.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-  
jar/com/mongodb/ReadConcern.java

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  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DeleteOptions.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java
  - \*
  - /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/CollationMaxVariable.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DBCcollectionRemoveOptions.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DBCcollectionDistinctOptions.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/codecs/package-info.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Collation.java
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  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DBCcollectionFindAndModifyOptions.java
  - \*
  - /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/CollationStrength.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodec.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DBCcollectionCountOptions.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/DBCcollectionFindOptions.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/DBObjectCollationHelper.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/CollationCaseFirst.java
  - \* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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/opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
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\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/PushOptions.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/BuildersHelper.java

\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/SimpleExpression.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryCollectionCodec.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/CommandSucceededEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/CommandFailedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/CommandStartedEvent.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/codecs/LineStringCodec.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Updates.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Aggregates.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/Accumulators.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/PolygonCoordinates.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/MultiPolygon.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/CommandListener.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/codecs/NamedCoordinateReferenceSystemCodec.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/MultiLineString.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/event/CommandEvent.java  
\*  
/opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/codecs/MultiLineStringCodec.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/GeometryCollection.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPolygonCodec.java  
\* /opt/cola/permits/1112020388\_1607035763.78/0/mongo-java-driver-3-4-2-sources-jar/com/mongodb/client/model/BsonField.java  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/org/bson/assertions/Assertions.java
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/assertions/Assertions.java
```

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*/
// make a special exception for a command with only a single item added to it. It's allowed to exceed maximum
document size so that
```

Found in path(s):

```
* /opt/cola/permits/1112020388_1607035763.78/0/mongo-java-driver-3-4-2-sources-
jar/com/mongodb/connection/BaseWriteCommandMessage.java
```

## 1.642 mail 1.4.1



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signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

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## 1.644 aop-alliance 1.0

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## 1.645 fastutil 6.5.6

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# 1.646 tephra-hbase-compat-1.0 0.6.0

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\* /opt/cola/permits/1120497655\_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/coprocessor/TransactionProcessor.java

\* /opt/cola/permits/1120497655\_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/Filters.java

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\* /opt/cola/permits/1120497655\_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/HBase10ConfigurationProvider.java

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\* /opt/cola/permits/1120497655\_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/TransactionAwareHTable.java

\* /opt/cola/permits/1120497655\_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/SecondaryIndexTable.java

\* /opt/cola/permits/1120497655\_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/coprocessor/TransactionVisibilityFilter.java

## 1.647 java-util 1.9.0

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\* Generate a unique ID that fits within a long value quickly, will never create a duplicate value,

\* even if called insanely fast, and it incorporates part of the IP address so that machines in

\* a cluster will not create duplicates. It guarantees no duplicates because it keeps

\* the last 100 generated, and compares those against the value generated, if it matches, it

\* will continue generating until it does not match. It will generate 100 per millisecond without

\* matching. Once the requests for more than 100 unique IDs per millisecond is exceeded, the

\* caller will be slowed down, because it will be retrying. Keep in mind, 100 per millisecond is

\* 10 microseconds continuously without interruption.

\*

\* @author John DeRegnauccourt (jderreg@gmail.com)

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/UniqueIdGenerator.java
```

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```
/**
```

```
* Useful encryption utilities that simplify tasks like getting an
* encrypted String return value (or MD5 hash String) for String or
* Stream input.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
*

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/EncryptionUtilities.java
```

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```
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```

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/ByteUtilities.java
```

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```
/**
```

```
* This invocation handler maintains the cookies for the connection.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
*
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Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/CookieAwareUrlInvocationHandler.java
```

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```
/**
```

```
* Useful IOUtilities that simplify common io tasks
*
```



```
* @author John DeRegnaucourt & Ken Partlow (jdereg@gmail.com)
*

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*/
```

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```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/IOUtilities.java
```

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```
/**
```

```
* Useful utilities for working with UrlConnections and IO.
```

```
*
```

```
* @author John DeRegnaucourt (jdereg@gmail.com) & Ken Partlow
```

```
*

```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/UrlUtilities.java
```

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```
/**
```

\* Implements a java.util.Set that will not utilize 'case' when comparing Strings  
\* contained within the Set. The set can be homogeneous or heterogeneous.  
\* If the CaseInsensitiveSet is iterated, when Strings are encountered, the original  
\* Strings are returned (retains case).

\*

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jar/com/cedarsoftware/util/CaseInsensitiveSet.java

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/\*\*

\* Handy utilities for working with Java Dates.

\*

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\* /opt/cola/permits/1120497727\_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/DateUtilities.java

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\* /opt/cola/permits/1120497727\_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/ReflectionUtils.java

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/\*\*

\* Useful utility for allowing Java code to make Ajax calls, yet the Java code

\* can make these calls via Dynamic Proxies created from Java interfaces for

\* the remote server(s).

\*

\* Example:

\*

\* Assume you have a tomcat instance running a JSON Command Servlet, like com.cedarsoftware's or

\* Spring MVC.

\*

\* Assume you have a Java interface 'Explorer' that is mapped to a Java bean that you are allowing

\* to be called through RESTful JSON calls (Ajax / XHR).

\*

\* Explorer has methods on it, like getFiles(userId), etc.

\*

\* You need to use a SessionAware (JSESSIONID only) or CookieAware UrlInvocationHandler to interact

\* with the server so that the cookies will be placed on all requests. In Javascript within browsers,

\* this is taken care of for you. Not so in the Java side.

\* <pre>

\* Map cookies = new HashMap();

```

* String url = "http://www.mycompany.com:80/json/"
* InvocationHandler handler = new
 CookieAwareUrlInvocationHandler(new URL(url), cookies);
* // This will handle all cookies, or you could use (where 'sessionId' holds the value of the JSESSIONID
* InvocationHandler handler = new SessionAwareUrlInvocationHandler(new URL(url), sessionId);
*
* Explorer explorer = (Explorer) ProxyFactory.create(Explorer.class, handler);
*
* At this point, your Java code can do this:
*
* List files = explorer.GetFiles(userId);
* </pre>
*
* @author John DeRegnaucourt (jdereg@gmail.com) & Ken Partlow (kpartlow@gmail.com)
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```

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```

* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/UrlInvocationHandler.java

```

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```

/**

```

```

* Handy utilities for working with Java arrays.
*

```

```

* @author John DeRegnaucourt (jdereg@gmail.com) & Ken Partlow
*

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```

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```
*/opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/ArrayUtilities.java
```

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```
/**
```

```
* Useful System utilities for common tasks
*
* @author John DeRegnaucourt (jdereg@gmail.com)
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```

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```
*/opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/SystemUtilities.java
```

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```
/**
```

```
* Java Object Graph traverser. It will visit all Java object
* reference fields and call the passed in Visitor instance with
* each object encountered, including the root. It will properly
* detect cycles within the graph and not hang.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
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```

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```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/Traverser.java
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```

```
/**
```

```
* Useful Math utilities
*
* @author John DeRegnaucourt (jdereg@gmail.com)
*

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```

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```
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jar/com/cedarsoftware/util/MathUtilities.java
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```

```
/**
```

```
* This class implements a Thread-Safe (re-entrant) SimpleDateFormat
* class. It does this by using a ThreadLocal that holds a Map, instead
* of the traditional approach to hold the SimpleDateFormat in a ThreadLocal.
*
```

```
* Each ThreadLocal holds a single HashMap containing SimpleDateFormats, keyed
* by a String format (e.g. "yyyy/M/d", etc.), for each new SimpleDateFormat
* instance that was created within the threads execution context.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
*

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/SafeSimpleDateFormat.java
```

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```
/**
```

```
* This handler adds the JSESSIONID cookie so that the Java Application (or Applet)
* can respond with the HTTP session Cookie header.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
*

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\* /opt/cola/permits/1120497727\_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/SessionAwareUrlInvocationHandler.java

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/\*\*

\* Test two objects for equivalence with a 'deep' comparison. This will traverse  
\* the Object graph and perform either a field-by-field comparison on each  
\* object (if no .equals() method has been overridden from Object), or it  
\* will call the customized .equals() method if it exists. This method will  
\* allow object graphs loaded at different times (with different object ids)  
\* to be reliably compared. Object.equals() / Object.hashCode() rely on the  
\* object's identity, which would not consider two equivalent objects necessarily  
\* equals. This allows graphs containing instances of Classes that did not  
\* override .equals() / .hashCode() to be compared. For example, testing for  
\* existence in a cache. Relying on an object's identity will not locate an  
\* equivalent object in a cache.<br/><br/>  
\*  
\* This method will handle cycles correctly, for example A->B->C->A. Suppose a and  
\* a' are two separate  
instances of A with the same values for all fields on  
\* A, B, and C. Then a.deepEquals(a') will return true. It uses cycle detection  
\* storing visited objects in a Set to prevent endless loops.  
\*  
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in path(s):

\* /opt/cola/permits/1120497727\_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/DeepEquals.java

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/\*\*



```
* Useful String utilities for common tasks
*
* @author John DeRegnauccourt (jdereg@gmail.com) & Ken Partlow
*

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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/StringUtilities.java
```

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```
/**
```

```
* Useful Map that does not care about the case-sensitivity of keys
* when the key value is a String. Other key types can be used.
* String keys will be treated case insensitively, yet key case will
* be retained. Non-string keys will work as they normally would.
* <p/>
* The internal CaseInsentitiveString is never exposed externally
* from this class. When requesting the keys or entries of this map,
* or calling containsKey() or get() for example, use a String as you
* normally would. The returned Set of keys for the keySet() and
* entrySet() APIs return the original Strings, not the internally
* wrapped CaseInsensitiveString.
*
* @author John DeRegnauccourt (jdereg@gmail.com)
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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/CaseInsensitiveMap.java
```

## 1.648 json-io 2.5.1

### 1.648.1 Available under license :

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```
/**
 * Read an object graph in JSON format and make it available in Java objects, or
 * in a "Map of Maps." (untyped representation). This code handles cyclic references
 * and can deserialize any Object graph without requiring a class to be 'Serializeable'
 * or have any specific methods on it. It will handle classes with non public constructors.
 *

 * Usages:
 *
 * Call the static method: { @code JsonReader.objectToJava(String json)}. This will
 * return a typed Java object graph.
 *
 * Call the static method: { @code JsonReader.jsonToMaps(String json)}. This will
 * return an untyped object representation of the JSON String as a Map of Maps, where
 * the fields are the Map keys, and the field values are the associated Map's values. You can
 * call the JsonWriter.objectToJava() method with the returned Map, and it will serialize
 * the Graph into the identical JSON stream from which
 * it was read.
 *
 * Instantiate the JsonReader with an InputStream: { @code JsonReader(InputStream in)} and then call
 * { @code readObject()}. Cast the return value of readObject() to the Java class that was the root of
 * the graph.
 *
 *
 * Instantiate the JsonReader with an InputStream: { @code JsonReader(InputStream in, true)} and then call
 * { @code readObject()}. The return value will be a Map of Maps.
 *

 *
 * @author John DeRegnaucourt (jdeg@gmail.com)
 *

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Found in path(s):

\* /opt/cola/permits/1120497754\_1609978047.3/0/json-io-2-5-1-sources-1-jar/com/cedarsoftware/util/io/JsonReader.java

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/\*\*

\* Output a Java object graph in JSON format. This code handles cyclic  
 \* references and can serialize any Object graph without requiring a class  
 \* to be 'Serializeable' or have any specific methods on it.  
 \* `<br/><ul><li>`  
 \* Call the static method: { @code JsonWriter.toJson(employee)}. This will  
 \* convert the passed in 'employee' instance into a JSON String.</li>  
 \* `<li>`Using streams:  
 \* 

```
 JsonWriter writer = new JsonWriter(stream);

 * writer.write(employee);

 * writer.close();
```

`</pre>`  
 \* This will write the 'employee' object to the passed in OutputStream.  
 \* `</li>`  
 \* `<p>`That's it. This can be used as a debugging tool. Output an object  
 \* graph using the above code. You can copy that JSON output into this site  
 \* which formats it with a lot of whitespace to make it human readable:  
 \* <http://jsonformatter.curiousconcept.com>  
 \* `<br/><br/>`  
 \* `<p>`This will output any object graph deeply (or null).  
 Object references are  
 \* properly handled. For example, if you had A->B, B->C, and C->A, then  
 \* A will be serialized with a B object in it, B will be serialized with a C  
 \* object in it, and then C will be serialized with a reference to A (ref), not a  
 \* redefinition of A.</p>  
 \* `<br/>`  
 \*  
 \* @author John DeRegnauccourt (jderreg@gmail.com)  
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```

Found in path(s):

```

* /opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-
jar/com/cedarsoftware/util/io/JsonWriter.java

```

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```

/**

```

```

* This class holds a JSON object in a LinkedHashMap.
* LinkedHashMap used to keep fields in same order as they are
* when reflecting them in Java. Instances of this class hold a
* Map-of-Map representation of a Java object, read from the JSON
* input stream.

```

```

*

```

```

* @param <K> field name in Map-of-Map

```

```

* @param <V> Value

```

```

*

```

```

* @author John DeRegnaucourt (jdereg@gmail.com)

```

```

*


```

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```

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\* /opt/cola/permits/1120497754\_1609978047.3/0/json-io-2-5-1-sources-1-jar/com/cedarsoftware/util/io/JsonObject.java

# 1.649 hive 2.1.1

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

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You can contact the author at :

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For [hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-native/src/main/native/gtest](https://github.com/apache/hadoop-mapreduce-project/tree/master/hadoop-mapreduce-client/hadoop-mapreduce-client-native/src/main/native/gtest)

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

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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-----

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- \* Alec Wysoker
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## 1.652.1 Available under license :

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zip/jetty-6-1-26-cloudera-1-jar/org/mortbay/jetty/AbstractConnector.class: binary file matches

/opt/cola/permits/1120502011\_1652700756.8469563/0/jetty-6-1-26-cloudera-1-jar-  
zip/jetty-6-1-26-cloudera-1-jar/org/mortbay/jetty/Connector.class: binary file matches

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binary file matches

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.6.0\_20 (Sun Microsystems Inc.)

Built-By: jenkins

Build-Jdk: 1.6.0\_20

implementation-version: 6.1.26.cloudera.1

mode: development

package: org.mortbay

url: <http://www.eclipse.org/jetty/jetty-parent/project/modules/jetty>

Export-Package: org.mortbay.jetty;uses:="org.mortbay.log,org.mortbay.i

o.nio,org.mortbay.jetty.bio,org.mortbay.io,org.mortbay.jetty.security

,org.mortbay.jetty.webapp,org.mortbay.jetty.handler,org.mortbay.resou

rce, javax.servlet, org.mortbay.jetty.servlet, org.mortbay.util.ajax, org.mortbay.thread, org.mortbay.component, org.mortbay.util, javax.servlet.http"; version="6.1.26.cloudera1", org.mortbay.io.nio; uses:="org.mortbay.log, org.mortbay.jetty, org.mortbay.io, org.mortbay.thread, org.mortbay.component"; version="6.1.26.cloudera1", org.mortbay.servlet.jetty; uses:="org.mortbay.jetty, javax.servlet, org.mortbay.io, org.mortbay.servlet, javax.servlet.http"; version="6.1.26.cloudera1", org.mortbay.io; uses:="org.mortbay.log, org.mortbay.util"; version="6.1.26.cloudera1", org.mortbay.jetty.bio; uses:="org.mortbay.log, org.mortbay.jetty, org.mortbay.io, org.mortbay.thread, org.mortbay.io.bio"; version="6.1.26.cloudera1", org.mortbay.jetty.security; uses:="org.mortbay.jetty, org.mortbay.log, org.mortbay.io, org.mortbay.jetty.bio, org.mortbay.jetty.webapp, org.mortbay.resource, org.mortbay.jetty.handler, javax.servlet, org.mortbay.jetty.servlet, javax.security.cert, javax.net.ssl, org.mortbay.component, org.mortbay.util, org.mortbay.io.bio, javax.servlet.http"; version="6.1.26.cloudera1", org.mortbay.jetty.webapp; uses:="org.mortbay.jetty, org.mortbay.log, org.mortbay.jetty.security, org.mortbay.xml, org.mortbay.resource, org.mortbay.jetty.handler, javax.servlet, org.mortbay.jetty.servlet, org.mortbay.util, javax.servlet.http, org.mortbay.jetty.deployer"; version="6.1.26.cloudera1", org.mortbay.xml; uses:="org.mortbay.log, javax.xml.parsers, org.xml.sax, org.mortbay.resource, org.mortbay.component, org.mortbay.util, org.xml.sax.helpers"; version="6.1.26.cloudera1", org.mortbay.jetty.nio; uses:="org.mortbay.log, org.mortbay.jetty, org.mortbay.io, org.mortbay.util.ajax, org.mortbay.io, org.mortbay.thread"; version="6.1.26.cloudera1", org.mortbay.jetty.handler; uses:="org.mortbay.log, org.mortbay.jetty, org.mortbay.io, org.mortbay.jetty.webapp, org.mortbay.resource, javax.servlet, org.mortbay.jetty.servlet, org.mortbay.component, org.mortbay.util, javax.servlet.http"; version="6.1.26.cloudera1", org.mortbay.resource; uses:="org.mortbay.log, org.mortbay.util"; version="6.1.26.cloudera1", org.mortbay.jetty.servlet; uses:="org.mortbay.log, org.mortbay.jetty, org.mortbay.io, org.mortbay.io, org.mortbay.jetty.security, org.mortbay.jetty.nio, org.mortbay.resource, org.mortbay.jetty.handler, javax.servlet, org.mortbay.component, org.mortbay.util, javax.servlet.http"; version="6.1.26.cloudera1", org.mortbay.io.bio; uses:="org.mortbay.io"; version="6.1.26.cloudera1", org.mortbay.jetty.deployer; uses:="org.mortbay.log, org.mortbay.jetty, org.mortbay.jetty.webapp, org.mortbay.xml, org.mortbay.jetty.handler, org.mortbay.resource, org.mortbay.util, org.mortbay.component"; version="6.1.26.cloudera1"

Ignore-Package: org.mortbay.jetty, org.mortbay.servlet, org.mortbay.io, org.mortbay.jetty.bio, org.mortbay.io, org.mortbay.jetty.security, org.mortbay.jetty.webapp, org.mortbay.jetty.nio, org.mortbay.xml, org.mortbay.jetty.handler, org.mortbay.resource, org.mortbay.jetty.servlet, org.mortbay.io.bio, org.mortbay.jetty.deployer

Tool: Bnd-0.0.238

Bundle-Name: Jetty Server

Bundle-RequiredExecutionEnvironment: J2SE-1.4

Bundle-Vendor: Mort Bay Consulting

Bundle-Version: 6.1.26.cloudera1

Bnd-LastModified: 1317155770923  
Bundle-ManifestVersion: 2  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>, <http://www.eclipse.org/org/documents/epl-v10.php>  
Bundle-Description: Jetty server core  
Import-Package: javax.net.ssl,javax.security.cert,javax.servlet;version="2.5",javax.servlet.http;version="2.5",javax.servlet.jsp;resolution:=optional,javax.servlet.resources;resolution:=optional;version="2.5",javax.xml.parsers,org.apache.jasper.servlet;resolution:=optional,org.mortbay.component;version="6.1.26.cloudera1",org.mortbay.jetty.handler.management;resolution:=optional,org.mortbay.log;version="6.1.26.cloudera1",org.mortbay.servlet;version="6.1.26.cloudera1",org.mortbay.thread;version="6.1.26.cloudera1",org.mortbay.util;version="6.1.26.cloudera1",org.mortbay.util.ajax;version="6.1.26.cloudera1",org.xml.sax,org.xml.sax.helpers  
Bundle-SymbolicName: org.mortbay.jetty.server  
Bundle-DocURL: <http://jetty.mortbay.org>

Found in path(s):

\* /opt/cola/permits/1120502011\_1652700756.8469563/0/jetty-6-1-26-cloudera-1-jar-zip/jetty-6-1-26-cloudera-1-jar/META-INF/MANIFEST.MF

# 1.653 hive-metastore 1.1.0

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Hadoop 0.20.2  
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This project includes code from <https://github.com/lemire/JavaFastPFOR>  
`parquet-column/src/main/java/parquet/column/values/bitpacking/LemireBitPacking.java`  
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## 1.655 oshi-core 2.6

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\*/

/\*\*

\* This is a special exception that is used to stop parsing when  
\* search for an element. For instance, when searching

```
for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):

```
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```
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
```

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Encodings.properties
```

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
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- \*
- /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/MethodResolver.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Number.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/Extensions.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/SerializerSwitcher.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/HasPositionalPredChecker.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemUse.java
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- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedContentHandler.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/NotEquals.java
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- /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeCounter.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/ObjectArray.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Constants.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NamespaceUriCall.java
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.java
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- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XObject.java
- \*
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\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorsResources\_sk.java  
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 jar/org/apache/xml/dtm/ref/EmptyIterator.java

\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx3.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XStringForChars.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformState.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/EnvironmentCheck.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyTable.java  
 \*  
 /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx2.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltDynamic.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/AttList.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterParentPath.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_sl.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/PipeDocument.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnsupportedElement.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java  
 \*  
 /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOM.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ru.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_sl.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactory.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_sv.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptsException.java  
 \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SAX2DOM.java  
 \*  
 /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTrace.java



\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSorter.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/SecuritySupport.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/UnImplNode.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_tr.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLSAXHandler.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource\_Filter.java  
\*  
/opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorPreserveSpace.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_hu.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SAXSourceLocator.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/RedundentExprEliminator.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_ja.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SmartTransformerFactoryImpl.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java  
\*  
/opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_ko.java  
\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Include.java  
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```

```
*/
```

```
/**
```

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

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
```

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.java
```

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
```

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```
/*
```

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```

```
*/
```

```
/*
```

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

```
*/
```

```

/*
 * @author Jacek Ambroziak
 * @author
 Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

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

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

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

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

 /**
 * Line number where this expression/pattern
 was declared.
 */

```

```

private int _lineNumber = 0;

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

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

public int getLineNumber() {
 return _lineNumber;
}

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

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

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

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

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

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

```

```

*/
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

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

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

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

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

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

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

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

if (local.equals(""))

```

```

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

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

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

return result;
}
}

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

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

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

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

```

```

 }
 else if (local.equals("@*")) {
 return NodeTest.ATTRIBUTE;
 }
}

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

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
 try {
 _expression = expression;
 _lineNumber = lineNumber;
 return super.parse();
 }
 catch (IllegalCharException e) {
 ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
 lineNumber, e.getMessage());
 _parser.reportError(Constants.FATAL, err);
 }
 return null;
}

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

```

```

 return(_symbolTable.lookupName(name));
}

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

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

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

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

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

```

```

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;

```



terminal EQ, NE;  
terminal LT, GT, LE, GE;  
terminal PLUS, MINUS, DIV, MOD, MULT;  
terminal String Literal;  
terminal String QNAME;  
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;  
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;  
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;  
terminal Double REAL;  
terminal Long INT;  
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;  
non terminal Expression Predicate, FilterExpr, Step;  
non  
terminal Expression OrExpr, AndExpr, EqualityExpr;  
non terminal Expression RelationalExpr, AdditiveExpr;  
non terminal Expression MultiplicativeExpr, UnaryExpr;  
non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

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

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

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

precedence left PLUS, MINUS;

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

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern  
{: RESULT = pattern; :}

| EXPRESSION Expr:expr  
{: RESULT = expr; :};

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

Pattern ::= LocationPathPattern:lpp  
{: RESULT = lpp; :}

| LocationPathPattern:lpp VBAR Pattern:p  
{: RESULT = new AlternativePattern(lpp, p); :};

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

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

| IdKeyPattern:ikp

{: RESULT = ikp; :}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

```

```

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

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

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

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

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

```

```

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

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

```

```

ChildOrAttributeAxisSpecifier ::= ATSIGN

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

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

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

```

```

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

AdditiveExpr ::= MultiplicativeExpr:me

```

```

{: RESULT = me; :}

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

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

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

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

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

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

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

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp
SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{:
//
// Expand '/' into '/descendant-or-self::node()' or
// into '/descendant-or-self::*'

```

```

//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
 parser.isElementAxis(((Step) rlp).getAxis()))
{
 nodeType = DTM.ELEMENT_NODE;
}
 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 FilterParentPath fpp = new FilterParentPath(fexp, step);
 fpp = new FilterParentPath(fpp, rlp);
 if (fexp instanceof KeyCall == false) {
 fpp.setDescendantAxis();
 }
 RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
 { : RESULT = rlp; : }

 | AbsoluteLocationPath:alp
 { : RESULT = alp; : };

RelativeLocationPath ::= Step:step
 { : RESULT
= step; : }

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

 | AbbreviatedRelativeLocationPath:arlp
 { : RESULT = arlp; : };

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

 | SLASH RelativeLocationPath:rlp
 { : RESULT = new AbsoluteLocationPath(rlp); : }

```

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

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

```
{:
 final Step right = (Step)step;
 final
int axis = right.getAxis();
 final int type = right.getNodeType();
 final Vector predicates = right.getPredicates();

 if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
 // Compress '//child:E' into 'descendant::E' - if possible
 if (predicates == null) {
 right.setAxis(Axis.DESCENDANT);
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
 RESULT = right;
 }
 else {
 // Expand 'rlp//child::E' into 'rlp/descendant::E'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 RESULT = new ParentLocationPath(left, right);
 }
 }
 else {
 // Expand '//step' -> 'descendant-or-self::*step'
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

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



```

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

```

```

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp

```

```

 {
 //
 // Expand '/' into '/descendant-or-self::node()' or
 // into '/descendant-or-self::*'
 //
 int nodeType = DOM.NO_TYPE;
 if (rlp instanceof Step &&
 parser.isElementAxis(((Step) rlp).getAxis()))
 {
 nodeType = DTM.ELEMENT_NODE;
 }
 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 RESULT =
 new AbsoluteLocationPath(parser.insertStep(step,
 (RelativeLocationPath) rlp));
 };

```

```

Step ::= NodeTest:ntest

```

```

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

```

```

| NodeTest:ntest Predicates:pp

```

```

 {
 if (ntest instanceof Step) {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

```
| Literal:string
{:
```

```
/*
```

```
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
```

```

* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

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

| INT:num
{:
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {
 if (num.doubleValue() == -0)
 RESULT = new RealExpr(num.doubleValue());
 else if (num.intValue() == 0)
 RESULT = new IntExpr(num.intValue());

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

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

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

```

```

VariableReference ::= DOLLAR VariableName:varName

```

```

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

if (node != null) {
 if (node instanceof Variable) {
 RESULT = new VariableRef((Variable)node);
 }
}

```

```

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

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

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
 if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
 RESULT = new CurrentCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
 RESULT = new NumberCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
 RESULT = new StringCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
 RESULT = new ConcatCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
 RESULT = new BooleanExpr(true);
 }
 else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
 RESULT = new BooleanExpr(false);
 }
 else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
 RESULT = new NameCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
 RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
 RESULT = new StringLengthCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
 RESULT = new PositionCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {

```

```

 RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
 RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
 RESULT = new NamespaceUriCall(fname);
}
else {
 RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
 RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
 RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
 RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
 RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
 RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
 RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
 RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
 RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
 RESULT = new UnparsedEntityUriCall(fname, argl);
}
}

```

```

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

```

```

 RESULT = new FunctionCall(fname, argl);
}
else {
 RESULT = new FunctionCall(fname, argl);
}
:};

```

NonemptyArgumentList

```

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

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

```

FunctionName ::= QName:fname

```

{:
 RESULT = fname;
:};

```

VariableName ::= QName:vname

```

{:
 RESULT = vname;
:};

```

Argument ::= Expr:ex

```

{: RESULT = ex; :};

```

NodeTest ::= NameTest:nt

```

{: RESULT = nt; :}

```

| NODE

```

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

```

| TEXT

```

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

```

| COMMENT

```

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

```

| PIPARAM LPAREN Literal:l RPAREN

```

{:
 QName name = parser.getQNameIgnoreDefaultNs("name");
 Expression exp = new EqualityExpr(Operators.EQ,
 new NameCall(name),

```



```

 new LiteralExpr(l));
 Vector predicates = new Vector();
 predicates.addElement(new Predicate(exp));
 RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

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

```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
// Proprietary, built in functions
/** current function string (Proprietary). */

```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java
```

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```
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```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
```

```
*/
```

```
/*
```

```
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
```

```
*/
```

```
package org.apache.xalan.processor;
```

```
/**
```

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

```
*/
```

```
public class XSLProcessorVersion
{
```

```
/**
```

```
* Print the processor version to the command line.
*
* @param argv command line arguments, unused.
```

```
*/
```

```
public static void main(String argv[])
{
 System.out.println(S_VERSION);
}
```

```
/**
```

```

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

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

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

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

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

/**
* Development Drop Number.
* Optional identifier designates development drop of

```

```

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

/**
 * Version String like <CODE>"Xalan Language
 * v.r[.dd] Dnn]"</CODE>.
 * <P>Semantics of the version string are
 identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
 +VERSION+"."+RELEASE+"."
 +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));

}

```

Found in path(s):

```

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

```

```

* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
 * Administrative
 * class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

 /**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"Xalan Java v.r[.dd] Dnn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
 public static String getVersion()
 {
 return getProduct()+" "+getImplementationLanguage()+" "
 +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
 +((getDevelopmentVersionNum() > 0) ?
 ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

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

```

```

 System.out.println(getVersion());
}

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

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

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

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

```

```

return @version.RELEASE@;
}

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

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

```



Found in path(s):

\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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

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\*/

/\*\*

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

\*/

Found in path(s):

\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java

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```

*/
/*
 * $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"Serializer Java v.r[.dd| Dnn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
 return getProduct()+" "+getImplementationLanguage()+" "
 +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
 +((getDevelopmentVersionNum() > 0) ?
 ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

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

/**
 * Name of product: Serializer.
 */

```

```

public static String getProduct()
{
 return "Serializer";
}

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

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

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

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance

```

```

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

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

```

Found in path(s):

\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src  
No license file was found, but licenses were detected in source scan.

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\*/

Found in path(s):

\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java  
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\*/

// Proprietary

/\*\* The 'document-location()' id (Proprietary). \*/

Found in path(s):

\* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/compiler/FunctionTable.java  
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```
*
* http://www.apache.org/licenses/LICENSE-2.0
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.
```

```
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/
```

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

```
package org.apache.xalan.xsltc.compiler;
```

```
import java_cup.runtime.Symbol;
%%
```

```

%cup
%unicode
%class XPathLexer
%yyeof

%{
 int last;

 void initialize() {
 last = -1;
 }

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

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

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

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

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

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

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

```

```

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

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

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

```



```

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

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

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

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

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

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

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

```

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

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

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

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

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

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

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

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

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

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

```

{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction" { return newSymbol(sym.PI); }
"processing-instruction"+[\t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\[^\]*\ { return newSymbol(sym.Literal,
 yytext().substring(1, yytext().length() - 1)); }
\[^\]*\ { return newSymbol(sym.Literal,
 yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"." { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*" { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?@"*" { return newSymbol(sym.QNAME, yytext()); }
[\t\r\n\f] { /* ignore white space. */ }
. { throw new Exception(yytext()); }

```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex
```

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- \*
- /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-
- jar/org/apache/xpath/operations/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
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- jar/org/apache/xalan/processor/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
- \*
- /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-
- jar/org/apache/xalan/templates/package.html
- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-
- jar/org/apache/xalan/extensions/package.html
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- jar/org/apache/xalan/transformer/package.html
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- \* /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
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- /opt/cola/permits/1127075804\_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html

# 1.660 javax.servlet.jsp 2.3.2

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\*/opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java  
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/\* \$Id: RegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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

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

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java

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

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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/Rule.java
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/substitution/VariableSubstitutor.java
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/\* \$Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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

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

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

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

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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java  
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/\* \$Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching \$  
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jar/org/apache/commons/digester/NodeCreateRule.java  
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jar/org/apache/commons/digester/plugins/RuleLoader.java  
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jar/org/apache/commons/digester/SetNextRule.java  
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/* $Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl $
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jar/org/apache/commons/digester/SetPropertyRule.java  
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/\* \$Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching \$

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jar/org/apache/commons/digester/xmlrules/DigesterLoader.java  
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jar/org/apache/commons/digester/plugins/RulesFactory.java  
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jar/org/apache/commons/digester/PathCallParamRule.java  
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/\* \$Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java  
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Found in path(s):

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/AbstractObjectCreationFactory.java

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

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java  
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/\* \$Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching \$

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

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```
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Found in path(s):

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/Rules.java

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```
/* $Id: StackAction.java 476205 2006-11-17 16:43:10Z dennisl $
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jar/org/apache/commons/digester/StackAction.java

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

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/LogUtils.java
```

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

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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java
```

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```
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```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/ObjectCreateRule.java
```

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```
/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
```

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```
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Found in path(s):

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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/RuleFinder.java
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```
/* $Id: FinderSetProperties.java 471661 2006-11-06 08:09:25Z skitching $
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```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java
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```

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

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/\* \$Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul \$

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

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

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17 20:00:50Z rahul \$

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

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

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

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

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

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jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java  
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/\* \$Id: FactoryCreateRule.java 471661 2006-11-06 08:09:25Z skitching \$

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

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

\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/ExtendedBaseRules.java  
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/\* \$Id: RuleSet.java 471661 2006-11-06 08:09:25Z skitching \$  
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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/RuleSet.java

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\* /opt/cola/permits/1135844707\_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/ObjectParamRule.java

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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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```

```
/* $Id: ParserFeatureSetterFactory.java 476205 2006-11-17 16:43:10Z dennisl $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/ParserFeatureSetterFactory.java
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```

```
/* $Id: Declaration.java 471661 2006-11-06 08:09:25Z skitching $
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```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

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

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

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*/
```

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```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

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

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

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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
```

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



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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginRules.java
```

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/* $Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SetNestedPropertiesRule.java
```

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```
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```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginManager.java
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```
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```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/RegexRules.java
```

# 1.662 commons-io 2.6

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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java  
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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-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/Traceable.java  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-  
jar/org/objectweb/asm/util/ASMifiable.java

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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/package.html  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/attrs/package.html  
\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/package.html  
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\* /opt/cola/permits/1135891771\_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/package.html  
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# 1.665 commons-lang3 3.0

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\*/

Found in path(s):

\* /opt/cola/permits/1145440743\_1616178883.36/0/metrics-core-2-2-0-sources-5-

# 1.667 regexp 2.7.2

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 */
```

Found in path(s):

```
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/CharacterIterator.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RE.java
*
/opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/recompile.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RESyntaxException.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REProgram.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REUtil.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REDebugCompiler.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REDemo.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/ReaderCharacterIterator.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/CharArrayCharacterIterator.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RETest.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/StringCharacterIterator.java
```

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guarantee element specifies that the communication  
between client and server should be NONE, INTEGRAL, or  
CONFIDENTIAL. NONE means that the application does not require any  
transport guarantees. A value of INTEGRAL means that the application  
requires that the data sent between the client and server be sent in  
such a way that it can't be changed  
in transit. CONFIDENTIAL means  
that the application requires that the data be transmitted in a  
fashion that prevents other entities from observing the contents of  
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Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: 1.5.0\_13 (Sun Microsystems Inc.)  
Built-By: janb  
Build-Jdk: 1.5.0\_13  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>  
Bundle-RequiredExecutionEnvironment: J2SE-1.4

Specification-Version: 2.5  
Bnd-LastModified: 1229016831353  
Export-Package: javax.servlet.http;uses:="javax.servlet";version="2.5"  
,javax.servlet;version="2.5",javax.servlet.resources;version="2.5",ja  
vax.servlet.jsp.resources;version="2.5"  
Bundle-Version: 2.5  
Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resourc  
es,javax.servlet.jsp.resources  
Bundle-Name: Servlet Specification API  
Bundle-Description: Servlet Specification API  
Bundle-DocURL: http://www.mortbay.com  
Originally-Created-By: 1.5.0\_13 (Sun Microsystems Inc.)  
Bundle-Vendor: Mort Bay Consulting  
Bundle-ManifestVersion: 2  
Bundle-SymbolicName: org.mortbay.jetty.servlet-api  
Tool: Bnd-0.0.238  
Implementation-Vendor:  
JCP

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jar/javax/servlet/jsp/resources/jsp\_2\_1.xsd  
\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/resources/javaee\_web\_services\_client\_1\_2.xsd  
\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/resources/javaee\_5.xsd  
\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-  
jar/javax/servlet/resources/jsp\_2\_1.xsd  
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CONFIDENTIAL means that the application requires that

INTEGRAL or CONFIDENTIAL flag will indicate that the use

<xsd:enumeration value="CONFIDENTIAL" />

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\* /opt/cola/permits/1150919554\_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jspxml.xsd

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changed in transit. CONFIDENTIAL means that the application

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Used in: user

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\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

\*

/opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CheckReturnValue.java

\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

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\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/NoAllocation.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
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\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/RequiredModifiers.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/SuppressPackageLocation.java  
\*  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CompileTimeConstant.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Immutable.java



\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Var.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/IncompatibleModifiers.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LazyInit.java  
\* /opt/cola/permits/1150926774\_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/ForOverride.java

# 1.685 jettison 1.1

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# 1.686 stax 3.1.4

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/* Stax2 API extension for Streaming API for XML processing (StAX).
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Found in path(s):

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/dom/DOMWrappingReader.java
```

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\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2Util.java  
\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingWriter.java

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\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java  
\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java  
\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java

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jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java

\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java

\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java

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/opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/util/StreamWriterDelegate.java

\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/ri/typed/NumberUtil.java

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\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/typed/Base64Variant.java  
\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/typed/Base64Variants.java  
\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/XMLStreamReader2.java  
\*

/opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/typed/TypedXMLStreamReader.java

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jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java  
\* /opt/cola/permits/1129090477\_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/ri/typed/AsciiValueEncoder.java

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jar/org/codehaus/stax2/ri/Stax2EventReaderImpl.java
```

## 1.687 jsr311-api 1.1.1

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```
* /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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\* /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-
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* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-
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*
/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
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\* /opt/cola/permits/1150985925\_1654022939.907158/0/jsr311-api-1-1-1-sources-6-  
jar/javax/ws/rs/core/GenericEntity.java

# 1.688 httpcomponents-core 4.4.1

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\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sr/NsDefaultProvider.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sr/StreamScanner.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/XmlWriterWrapper.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/XmlWriter.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/BaseStreamWriter.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/io/ReaderBootstrapper.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sr/TypedStreamReader.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/TypedStreamWriter.java

\*

/opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DTDEventListener.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-

```
jar/com/ctc/wstx/sr/BasicStreamReader.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sw/AsciiXmlWriter.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/DTDTypingNonValidator.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sr/AttributeCollector.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sw/EncodingXmlWriter.java
*
/opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/MinimalDTDReader.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/ISOLatinReader.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/DTDValidator.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/FullDTDReader.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sw/BufferingXmlWriter.java
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```
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/sw/BaseNsStreamWriter.java
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* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/UTF8Reader.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/evt/BaseStartElement.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/dtd/PrefixNameSet.java
*
/opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/WstxInputData.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/exc/WstxLazyException.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/WstxInputLocation.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/EBCDICCodec.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/AsciiReader.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/util/PrefixName.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/exc/WstxException.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/util/BaseNsContext.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/io/UTF32Reader.java
*
/opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/evt/DefaultEventAllocator.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-
jar/com/ctc/wstx/stax/WstxEventFactory.java
```



\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/ent/EntityDecl.java

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\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/OutputElementBase.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/util/BijectiveNsMap.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/SimpleOutputElement.java

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\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DTDElement.java

\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/stax/WstxOutputFactory.java  
\*  
/opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/util/ElementIdMap.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/evt/WstxEventReader.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DTDId.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/msv/RelaxNGSchemaFactory.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sr/ValidatingStreamReader.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/stax/WstxInputFactory.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/msv/BaseSchemaFactory.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/msv/W3CSchemaFactory.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/msv/RelaxNGSchema.java  
\*  
/opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/msv/AttributeProxy.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DTDSubset.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DTDAttribute.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DefaultAttrValue.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/msv/GenericMsvValidator.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/util/SymbolTable.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sw/NonNsStreamWriter.java  
\* /opt/cola/permits/1150985846\_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DTDSchemaFactory.java

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## 1.692 accessors-smart 1.2

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```

Found in path(s):

```
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/DynamicClassLoader.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/Accessor.java
*
/opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/ASMUtil.java
```

## 1.693 jopt-simple 5.0.4

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\* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/EnumConverter.java

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- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
- \*
- /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
- \*
- /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
- \* /opt/cola/permits/1177945013\_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java

```

*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/SimpleOptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/NonOptionArgumentSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/MissingRequiredOptionsException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/util/KeyValuePair.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/AbbreviationMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/IllegalOptionSpecificationException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionMissingRequiredArgumentException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/ArgumentAcceptingOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/util/InetAddressConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/ReflectionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java

```

## 1.694 json-smart 2.3

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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONObject.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONArray.java  
\*  
/opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAwareEx.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/FakeMapper.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAwareEx.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/ParseException.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JStylerObj.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONUtil.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserString.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/JsonReader.java  
\*  
/opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserReader.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/BeansMapper.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAware.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserBase.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperOrdered.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserMemory.java



```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/ArrayMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/CollectionMapper.java
*
/opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/CompressorMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserByteArray.java
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Found in path(s):

```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/DefaultMapper.java
```

## 1.695 tools-ant 1.6.5

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\* /opt/cola/permits/1194911994\_1629634465.76/0/hikaricp-2-6-1-sources-1-  
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTrackerFactory.java  
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\* /opt/cola/permits/1194911994\_1629634465.76/0/hikaricp-2-6-1-sources-1-  
jar/com/zaxxer/hikari/pool/PoolEntry.java  
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\* /opt/cola/permits/1194911994\_1629634465.76/0/hikaricp-2-6-1-sources-1-jar/com/zaxxer/hikari/util/SuspendResumeLock.java  
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\* /opt/cola/permits/1194911994\_1629634465.76/0/hikaricp-2-6-1-sources-1-jar/com/zaxxer/hikari/HikariConfig.java  
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/opt/cola/permits/1194911994\_1629634465.76/0/hikaricp-2-6-1-sources-1-jar/com/zaxxer/hikari/HikariDataSource.java

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Found in path(s):

```
* /opt/cola/permits/1349013147_1655879756.6643403/0/failureaccess-1-0-1-sources-4-
jar/com/google/common/util/concurrent/internal/InternalFutures.java
* /opt/cola/permits/1349013147_1655879756.6643403/0/failureaccess-1-0-1-sources-4-
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
```

## 1.703 dozer 5.5.1

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```
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/beanmapping.xsd
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\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/ByteConverter.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/ShortConverter.java

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- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/jmx/DozerAdminControllerMBean.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/CalendarConverter.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/StatisticsInterceptor.java
- \*
  - /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/DozerBeanMapper.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/DateFormatContainer.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/AllowedExceptionContainer.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/IteratorUtils.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/propertydescriptor/SelfPropertyDescriptor.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/event/DozerEventType.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/ReflectionUtils.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/PrimitiveOrWrapperConverter.java
- \*
  - /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/fieldmap/MapFieldMap.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/inject/DozerBeanContainer.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/RelationshipType.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/loader/xml/ELEngine.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/cache/Cache.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/StatisticType.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/StatisticsManagerImpl.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/osgi/Activator.java
- \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/Statistic.java

```

*
/opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/classmap/MappingFileData.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/converters/IntegerConverter.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/DozerBuilder.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/BeanGeneralCreationStrategy.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/converters/ConversionException.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/util/CollectionUtils.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/classmap/generator/JavaBeanFieldsDetector.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/factory/XMLBeanFactory.java
*
/opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/util/DozerConstants.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/DozerBeanMapperSingletonWrapper.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/xml/ElementReader.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/xml/DozerResolver.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/propertydescriptor/CustomGetSetPropertyDescriptor.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/event/DozerEventManager.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/propertydescriptor/MapPropertyDescriptor.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/xml/XMLParser.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/config/GlobalSettings.java
*
/opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/api/FieldsMappingOption.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/api/FieldDefinition.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/MappingException.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/jmx/DozerStatisticsControllerMBean.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/jmx/JMXPlatformImpl.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/BeanFactory.java

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\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/CopyByReferenceContainer.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/CopyByReference.java  
 \*  
 /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/DozerClassLoader.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/MappingProcessor.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/StatisticsManager.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/event/DozerEvent.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/LongConverter.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/builder/BeanBuilderCreationStrategy.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/ClassMapBuilder.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/config/BeanContainer.java  
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 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/NoProxyResolver.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/DateConverter.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/fieldmap/ExcludeFieldMap.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/MappingUtils.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/loader/api/TypeDefinition.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/DozerModule.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/propertydescriptor/XmlBeanPropertyDescriptor.java  
 \*  
 /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/ConfigurableCustomConverter.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/metadata/MetadataLookupException.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/loader/api/BeanMappingBuilder.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/loader/api/TypeMappingOption.java

\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
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 jar/org/dozer/converters/EnumConverter.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
 jar/org/dozer/util/HibernateProxyResolver.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
 jar/org/dozer/propertydescriptor/PropertyDescriptorFactory.java  
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 jar/org/dozer/cache/CacheManager.java  
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jar/org/dozer/event/EventManager.java  
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 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
 jar/org/dozer/converters/CustomConverterContainer.java  
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 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
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 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
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 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
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 jar/org/dozer/cache/CacheEntry.java  
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 jar/org/dozer/DozerEventListener.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
 jar/org/dozer/loader/api/TypeMappingBuilder.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
 jar/org/dozer/util/DeepHierarchyUtils.java  
 \* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-  
 jar/org/dozer/loader/xml/SimpleElementReader.java

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/opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/GlobalStatistics.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/BeanBuilder.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/cache/DozerCache.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/XMLGregorianCalendarConverter.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/DozerClass.java  
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\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/BridgedMethodFinder.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/Mapping.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/DozerConverter.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/factory/BeanCreationStrategy.java  
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\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/propertydescriptor/DeepHierarchyElement.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/converters/StringConstructorConverter.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/fieldmap/FieldMap.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/MappingValidator.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/MapperAware.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/inject/BeanRegistry.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/CustomConverter.java  
\* /opt/cola/permits/1349880201\_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/MappedFieldsTracker.java

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/opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/classmap/generator/GeneratorUtils.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/MappingsParser.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/util/DefaultClassLoader.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/cache/CacheKeyFactory.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/Mapper.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/builder/BuilderUtil.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/DozerInitializer.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/xml/XMLParserFactory.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/propertydescriptor/JavaBeanPropertyDescriptor.java
*
/opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/converters/CustomConverterDescription.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/stats/StatisticEntry.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/inject/Inject.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/api/FieldsMappingOptions.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
jar/org/dozer/loader/xml/MappingStreamReader.java

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# 1.710 protobuf-java-util 3.11.1

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jar/com/google/protobuf/util/JsonFormat.java
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# 1.711 jersey 2.25.1

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# 1.712 jersey 1.9

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jar/com/sun/jersey/core/osgi/Activator.java

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/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/spi/inject/Errors.java

\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/spi/component/ioc/IOCComponentProcessorFactoryInitializer.java

\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/spi/package-info.java

\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/spi/scanning/uri/FileSchemeScanner.java

\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-

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jar/com/sun/jersey/core/impl/provider/header/MediaTypeProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/scanning/Scanner.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/scanning/uri/VfsSchemeScanner.java
*
/opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/util/LazyVal.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/xml/ThreadLocalSingletonContextProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/util/FeaturesAndProperties.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/scanning/uri/UriSchemeScanner.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/entity/StreamingOutputProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/component/ioc/IoCProviderFactory.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/util/MultivaluedMapImpl.java
*
/opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/provider/CompletableReader.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/component/ioc/IoCComponentProviderFactory.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/header/NewCookieProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/entity/RenderedImageProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/header/DateProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/header/URIProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/spi/inject/Injectable.java
*
/opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/entity/DocumentProvider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/impl/provider/entity/EntityHolderReader.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/spi/inject/InjectableProviderContext.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/header/HttpDateFormat.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/util/KeyComparator.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/component/ioc/IoCComponentProcessor.java

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\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/impl/provider/xml/LazySingletonContextProvider.java  
\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/reader/package-info.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/spi/service/ServiceFinder.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/reader/CookiesParser.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/impl/provider/xml/DocumentBuilderFactoryProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/impl/provider/entity/XMLJAXBElementProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/spi/factory/ResponseBuilderImpl.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/spi/service/ServiceConfigurationError.java  
\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/InBoundHeaders.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/FormContentDisposition.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/util/ThrowHelper.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/provider/AbstractMessageReaderWriterProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/spi/scanning/package-info.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/spi/component/ProviderFactory.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/impl/provider/entity/InputStreamProvider.java  
\*  
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\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/api/uri/UriBuilderImpl.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/impl/provider/header/CookieProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/impl/provider/entity/FileProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/Token.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/spi/MessageBodyWorkers.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/ContentDisposition.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-

jar/com/sun/jersey/core/impl/provider/header/LinkHeaderProvider.java  
\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/impl/provider/entity/ReaderProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/impl/provider/entity/XMLRootObjectProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
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\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/header/LinkHeaders.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/spi/scanning/FilesScanner.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/api/representation/package-info.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/spi/component/ioc/package-info.java  
\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/spi/scanning/uri/BundleSchemeScanner.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/util/KeyComparatorLinkedHashMap.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/spi/service/package-info.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/spi/component/ioc/IOCDestroyable.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/impl/provider/xml/XMLStreamReaderContextProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/impl/provider/header/WriterUtil.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/util/ReaderWriter.java  
\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/util/StringKeyStringValueIgnoreCaseMultivaluedMap.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/spi/component/ComponentProviderFactory.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/spi/HeaderDelegateProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/impl/provider/entity/BaseFormProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/spi/inject/package-info.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/impl/provider/entity/XMLRootElementProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/spi/StringReader.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-  
jar/com/sun/jersey/core/spi/factory/ContextResolverFactory.java

\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/header/QualityFactor.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/localization/Localizable.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/spi/component/ComponentProvider.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/com/sun/jersey/core/util/StringIgnoreCaseKeyComparator.java  
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\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javafx/ws/rs/core/GenericEntity.java  
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 \* and therefore, elected the GPL Version 2 license, then the option applies  
 \* only if the new code is made subject  
 \* to such option by the copyright  
 \* holder.  
 \*/  
 /\*\*  
 \* Obtain a { @link Closing} of the jar file.  
 \* <p>  
 \* For most platforms the format for the zip or jar follows the form of  
 \* the <a href="http://docs.sun.com/source/819-0913/author/jar.html#jarprotocol">jar protocol.</a></p>  
 \* <ul>  
 \* <li><code>jar:file:///tmp/fishfingers.zip!/example.txt</code></li>  
 \* <li><code>zip:http://www.example.com/fishfingers.zip!/example.txt</code></li>  
 \* </ul>

```

* <p>
* On versions of the WebLogic application server a proprietary format is
* supported of the following form, which assumes a zip file located on
* the local file system:
* </p>
*
* <code>zip:/tmp/fishfingers.zip!/example.txt</code>
* <code>zip:d:/tempfishfingers.zip!/example.txt</code>
*
* <p>
* This method will first attempt to create a { @link Closing } as follows:
* <pre>
* new Closing(new URL(jarUrlString).openStream());
* </pre>
* if that fails with a { @link MalformedURLException } then the method will
* attempt to create a { @link Closing } instance as follows:
* <pre>
* return new Closing(new FileInputStream(
* UriComponent.decode(jarUrlString, UriComponent.Type.PATH)));
* </pre>
*
* @param jarUrlString the raw scheme specific part of a URI minus the jar
* entry
* @return a { @link Closing }.
* @throws IOException if there is an error opening the stream.
*/

```

Found in path(s):

```

* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-
jar/com/sun/jersey/core/spi/scanning/uri/JarZipSchemeScanner.java
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```

* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/GET.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/ext/Provider.java
* /opt/cola/permits/1792808804_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/HttpMethod.java

```

\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/WebApplicationException.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/DefaultValue.java  
\*  
/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/UriInfo.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/QueryParam.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/Cookie.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/MultivaluedMap.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/UriBuilder.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/HttpHeaders.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/MediaType.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/POST.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/HeaderParam.java  
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/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/PathSegment.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/SecurityContext.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/Encoded.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/NewCookie.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/HEAD.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/Consumes.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/CookieParam.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/OPTIONS.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/Produces.java  
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/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/Context.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/EntityTag.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/Variant.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/Path.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/PUT.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/PathParam.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/MatrixParam.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/Application.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/CacheControl.java

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/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/UriBuilderException.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/DELETE.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/FormParam.java  
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\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/ApplicationPath.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/Response.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/ext/ContextResolver.java  
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/opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/core/StreamingOutput.java  
\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/ext/FactoryFinder.java  
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\* /opt/cola/permits/1792808804\_1694480752.2879837/0/jersey-core-1-9-sources-5-jar/javax/ws/rs/ext/MessageBodyWriter.java  
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## 1.713 xmlenc 0.52

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 * /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/DataBindingException.java
 * /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXB.java

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jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java  
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jar/javax/xml/bind/MarshalException.java  
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jar/javax/xml/bind/helpers/Messages.java  
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jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java  
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jar/javax/xml/bind/UnmarshalException.java  
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jar/javax/xml/bind/ValidationEventLocator.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-  
jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java  
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jar/javax/xml/bind/DatatypeConverterInterface.java

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- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlMimeType.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlList.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessType.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessorOrder.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessorType.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAnyElement.java
- \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-

```
jar/javax/xml/bind/attachment/AttachmentMarshaller.java
*
/opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/W3CDomHandler.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Binder.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlMixed.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/DomHandler.java
*
/opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlElementWrapper.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/SchemaOutputResolver.java
* /opt/cola/permits/1833197682_1698356515.304526/0/jaxb-api-2-2-11-sources-5-
jar/javax/xml/bind/annotation/XmlSchemaType.java
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\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElements.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementRefs.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlIDREF.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ParseConversionEvent.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlID.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlRootElement.java

\*

/opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementRef.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlNs.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlType.java

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBElement.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBIntrospector.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementDecl.java  
\*  
/opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/PropertyException.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/PrintConversionEvent.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlEnum.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElement.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlSchema.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlTransient.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAttribute.java  
\*  
/opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlEnumValue.java  
\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java  
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jar/javax/xml/bind/helpers/package.html

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/package.html

\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-  
jar/javax/xml/bind/util/package.html

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\* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-  
 jar/javax/xml/bind/DatatypeConverterImpl.java  
 \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-  
 jar/javax/xml/bind/JAXBPermission.java  
 \* /opt/cola/permits/1833197682\_1698356515.304526/0/jaxb-api-2-2-11-sources-5-  
 jar/javax/xml/bind/WhiteSpaceProcessor.java

## 1.715 jline 2.11

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* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/CandidateListCompletionHandler.properties
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```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/internal/TerminalLineSettings.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/internal/ConsoleReaderInputStream.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/package-info.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/StringsCompleter.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/TestAccessible.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/EnumCompleter.java
```

```
*
```

```
/opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/Log.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/ArgumentCompleter.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/CompletionHandler.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/AggregateCompleter.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/history/FileHistory.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/UnsupportedTerminal.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/KeyMap.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/Operation.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/history/History.java
```

```
*
```

```
/opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/CursorBuffer.java
```

```
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
```

```

jar/jline/console/internal/ConsoleRunner.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/TerminalSupport.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/AnsiWindowsTerminal.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/completer/package-
info.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/package-info.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/WindowsTerminal.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/NoInterruptUnixTerminal.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/history/PersistentHistory.java
*
/opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/Terminal.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/UserInterruptException.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/Urls.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/history/MemoryHistory.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/internal/ShutdownHooks.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/internal/NonBlockingInputStream.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/package-info.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/ConsoleKeys.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/Completer.java
*
/opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/FileNameCompleter.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/CandidateListCompletionHandler.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/console/completer/NullCompleter.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/Preconditions.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-
jar/jline/internal/InputStreamReader.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/TerminalFactory.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/history/package-
info.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/Configuration.java
*
/opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/console/ConsoleReader.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/internal/Nullable.java
* /opt/cola/permits/1844252404_1699601496.5898528/0/jline-2-11-sources-6-jar/jline/UnixTerminal.java

```

# 1.716 protobuf-java 3.11.1

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jar/com/google/protobuf/ManifestSchemaFactory.java
* /opt/cola/permits/1846132786_1699945975.5931592/0/protobuf-java-3-11-1-sources-1-
jar/com/google/protobuf/Utf8.java
*
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\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/BASE64DecoderStream.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/ChunkInputStream.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/MIMEEvent.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/ASCIIUtility.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/Chunk.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/Header.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/PropUtil.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/MimeUtility.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/FileData.java  
 \*  
 /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/InternetHeaders.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/MIMEParsingException.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/DataFile.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/UUDecoderStream.java  
 \* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
 jar/org/jvnet/mimepull/LineInputStream.java

\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-jar/org/jvnet/mimepull/QPDecoderStream.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-jar/org/jvnet/mimepull/Data.java  
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\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-

jar/org/jvnet/mimepull/MIMEPart.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/WeakDataFile.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/MIMEConfig.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/MIMEParser.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/CleanUpExecutorFactory.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/FinalArrayList.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/MIMEMessage.java  
\* /opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/DecodingException.java  
\*  
/opt/cola/permits/1907650594\_1707681791.470816/0/mimepull-1-9-6-sources-8-  
jar/org/jvnet/mimepull/FactoryFinder.java  
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jar/org/jvnet/mimepull/TempFiles.java

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