



Open Source Used In Cisco AppDynamics Cloud Alerting Health Rule API 2.0.0-621_June13

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As long as these guidelines are kept, we expect to continue enhancing this system and expect to make other tools available as they are completed.

The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

1.2 libjpeg 6b

1.2.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.2.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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

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DOCUMENTATION

ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal

documentation:

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

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

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

OVERVIEW

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

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

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

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments

in JFIF files.

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

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

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

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the

resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The

JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified

official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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

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

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

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably [ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/](http://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/). Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is;

you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS

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

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

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

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

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

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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

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

As always, speeding things up is of great interest.

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

1.3 javax-inject 1

1.3.1 Available under license :

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Version 2.0, January 2004

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1.5 slf4j 1.6.6

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1.6 javax-json 1.0.4

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<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/47" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/CDDL-1.0" />
  <meta name="MobileOptimized" content="width" />
  <title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css"
rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

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

  <!-- HTML5 element support for IE6-8 -->
  <!--[if lt IE 9]>
    <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
  <![endif]-->
  <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
  <script type="text/javascript">
  <!--/--><![CDATA[//><!--
window.jQuery
```



```

|| document.write("<script src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa li99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

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

});
//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script
type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"D5bF-
vfxh3x4rhncCr3T2k7ur5CHjnrBuWtl5Py_f8"},"js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}},urlIsAjaxTrusted":{"\/licenses\/cddl1.php":true},"superfish":{"1":{"id":"1","sf":{"anima

```

```
tion":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"dis
ableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width"},"add
Selected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":fal
se,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}});
```

```
//--><![!]]>
```

```
</script>
```

```
</head>
```

```
<body
```

```
class="html not-front not-logged-in no-sidebars page-node page-node- page-node-47 node-type-page" >
```

```
<div id="skip-link">
```

```
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
```

```
</div>
```

```
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>
```

```
<!-- #header-top -->
```

```
<div id="header-top" class="clearfix">
```

```
<div class="container">
```

```
<!-- #header-top-inside -->
```

```
<div id="header-top-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-8">
```

```
<!-- #header-top-left -->
```

```
<div id="header-top-left" class="clearfix">
```

```
<div class="region
```

```
region-header-top-left">
```

```
<div id="block-menu-secondary-menu" class="block block-menu clearfix">
```

```
<div class="content">
```

```
<ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
```

```
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
```

```
<li class="leaf"><a href="/contact" title="">Contact</a></li>
```

```
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
```

```
</ul> </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF:#header-top-left -->
```

```
</div>
```

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

```
<!-- #header-top-right -->
```

```
<div id="header-top-right" class="clearfix">
```

```
<div class="region region-header-top-right">
```

```

<div id="block-search-form" class="block block-search clearfix">

<div class="content">
  <form action="/licenses/cddl1.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div
class="container-inline">
  <h2 class="element-invisible">Search form</h2>
  <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
KxXCPRthSHIavIFsWuRt0aA5XfPKSjxX6XBfkcMCQPQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
  </div>
  <!-- EOF:#header-top-right -->
</div>

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

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

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

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

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

          <div id="site-name">

```

```

        <a href="/" title="Home">Open Source Initiative</a>
    </div>

</div>

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

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

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

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

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

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

```

[Articles of Incorporation](#)

- [Board Elections](/elections)
- [Bylaws of the Open Source Initiative](/bylaws)
- [Conflict of Interest](/conflict_of_interest_policy)
- [Trademark & Logo](/trademark)
 - [OSI's Trademark Policy](/trademark-guidelines)
 - [Guidelines for appearance and usage of OSI Logo](/logo-usage-guidelines)
 - [Rules for posting content on this site](/tos)
 - [Terms of Service](/terms_of_service)
 - [Licenses](/licenses)
 - [The actual OSD defining what constitutes an Open Source licence](/osd)
 - [The OSD with explanations and rationale interspersed.](/osd-annotated)
 - [Licenses by Category](/licenses/category)
 - [Licenses that are approved by the OSI as conforming to the OSD](/licenses/alphabetical)
 - [Licenses by Name](/licenses/name)
 - [Certifying licences as OSD-compliant](/approval)
 - [License Review Process](/proliferation)
 - [Licence Proliferation](/proliferation-report)
 - [License Proliferation Committee's report to the OSI Board](/proliferation-report)
 - [LP report to the Board](/osr-intro)
 - [Open Standards Requirement for Software](/osr)
 - [An "open standard" must not prohibit conforming implementations in open source software.](/osr)
 - [The Open Standards Requirement Compliance](/osr-compliance)
 - [Open Standards Requirement Rationale](/osr-rationale)
 - [Frequently asked questions about the Open Standards Requirement](/osr-faq)
 - [OSR Frequently Asked Questions](#)
 - [Membership](/membership)
 - [Page for our various membership programs](/members)
 - [Individuals](/members)
 - [Join](/civicrm/contribute/transact?reset=1&id=1)

id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a

```

href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
</div>
</div>
</nav>
</div>
</div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->

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

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

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

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

<div class="row">

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

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

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

<h1 class="page-title">Common Development and Distribution
License (CDDL-1.0)</h1>

<!-- #tabs -->

<div class="tabs">
</div>

```

```

<!-- EOF: #tabs -->

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

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

<div class="content">
<article id="node-47" class="node node-page clearfix">

<div class="content">
<div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><div align="right">
<button onclick="myFunction()">Further resources on <b>CDDL-1.0</b></button>

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

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

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially
helpful resources for the community, it does not endorse any content, contributors or license interpretations from
these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI
does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-
party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI,
exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the
resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice.
") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained
style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License
List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

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

```


COMMON DEVELOPMENT AND DISTRIBUTION LICENSE

Version 1.0 (CDDL-1.0)

[text](cddl1.txt)

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```

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

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

</section>

</div>

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

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

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

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

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

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

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

```

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

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

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

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
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</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

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

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

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

```

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

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

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

```

1.10 paranamer 2.8

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jar/com/thoughtworks/paranamer/BytecodeReadingParanamer.java
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jar/com/thoughtworks/paranamer/DefaultParanamer.java  
* /opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-  
jar/com/thoughtworks/paranamer/NullParanamer.java  
* /opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-  
jar/com/thoughtworks/paranamer/AdaptiveParanamer.java  
*  
/opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-  
jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java  
* /opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-  
jar/com/thoughtworks/paranamer/CachingParanamer.java
```

1.11 dbus-glib 0.100-7.el7

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* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NotNull.java
*
/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java

1.14 hdrhistogram 2.1.9

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* @author Gil Tene
*/

Found in path(s):

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/RecordedValuesIterator.java

```

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/HistogramLogReader.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoublePercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogram.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleAllValuesIterator.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedDoubleHistogram.java

```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramLogReader.java
*
```

```
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LinearIterator.java
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/package-
info.java
```

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*
* @author Gil Tene
*/
```

```
package org.HdrHistogram;
```

```
final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIMES$";
}
```

Found in path(s):

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/Version.java.template
```

1.15 iputils 20160308-10.el7

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1.16 libgcrypt 1.5.3-14.el7

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1.17 ncurses 5.9-14.20130511.e17_4

1.17.1 Available under license :

Upstream source <http://invisible-island.net/ncurses/ncurses-examples.html>

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1.18 gnupg 2.0.22-5.el7_5

1.18.1 Available under license :

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

/opt/cola/permits/183657586_1695337116.0137277/0/gnupg2-2-0-22-5-el7-5-x86-64-rpm-tar-gz/gnupg2-2.0.22-5.el7_5.x86_64.rpm: binary file matches

Found in path(s):

* /bin/grep

1.19 abego-treelayout-core 1.0.3

1.19.1 Available under license :

[The "BSD license"]

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1.20 failureaccess 1.0.1

1.21 gobject-introspection 1.56.1-1.el7

1.21.1 Available under license :

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1.22 gpgme 1.3.2-5.el7

1.22.1 Available under license :

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.23 grep 2.20-3.el7

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.31 commons-collections 4.4

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1.35 jopt-simple 5.0.4

1.36 commons-math 3.4.1

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1.38 leveldb 0.6

1.39 cglib 3.2.9

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1.41 disruptor 3.4.2

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jar/com/lmax/disruptor/util/ThreadHints.java
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jar/com/lmax/disruptor/AggregateEventHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventFactory.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SequenceReportingEventHandler.java
*
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SleepingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/ExceptionHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SequenceBarrier.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/BusySpinWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventTranslatorTwoArg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/NoOpEventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/BatchEventProcessor.java
*
/opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/util/DaemonThreadFactory.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/EventProcessorInfo.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SingleProducerSequencer.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/AbstractSequencer.java
*
/opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/BlockingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/ProcessingSequenceBarrier.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/WorkHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/RingBuffer.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventTranslatorThreeArg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/WaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/MultiProducerSequencer.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/LifecycleAware.java
*
/opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/EventHandlerGroup.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/AlertException.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SequenceGroup.java

* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorVararg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/YieldingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ConsumerRepository.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/Util.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslator.java

*
/opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorOneArg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/Disruptor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FatalExceptionHandler.java

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- * /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/InsufficientCapacityException.java
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- /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ProducerType.java
- * /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceGroups.java
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- * /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequencer.java

1.42 guice 4.2.2

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and
`show c' should show the appropriate
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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.

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

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

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

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

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

that program using a modified version of the Library.

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

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

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

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

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(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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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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)

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

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

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1.45 geoipupdate 2.5.0-1.el7

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1.46 python-chardet 2.2.1-3.el7

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Any executables

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1.55 kmod 20-28.el7

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1.60 shared-mime-info 1.8-5.el7

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```

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1.62 python-urlgrabber 3.10-10.e17

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1.64 pam 1.1.8-23.el7

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```
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* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/QueryMap.java
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* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Util.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
*
/opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/codec/EncodeException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/FeignException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Contract.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/RetryableException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Feign.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-

```
jar/feign/codec/ErrorDecoder.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Client.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Response.java
*
/opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/RequestTemplate.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/auth/Base64.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Request.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/ReflectiveFeign.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Logger.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Retryer.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Target.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/RequestInterceptor.java
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jar/feign/InvocationHandlerFactory.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/SynchronousMethodHandler.java
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```
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/Encoder.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/Decoder.java
```

1.68 feign-jackson 8.18.0

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```
* /opt/ws_local/PERMITS_SQL/1041746349_1590960627.05/0/feign-jackson-8-18-0-sources-
jar/feign/jackson/JacksonDecoder.java
* /opt/ws_local/PERMITS_SQL/1041746349_1590960627.05/0/feign-jackson-8-18-0-sources-
jar/feign/jackson/JacksonEncoder.java
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1.69 feign-jaxrs 8.18.0

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```
*/opt/ws_local/PERMITS_SQL/1041740744_1590954450.45/0/feign-jaxrs-8-18-0-sources-
jar/feign/jaxrs/JAXRSContract.java
```

1.70 guice-multibindings 4.2.2

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1.71 guice-assistedinject 4.2.2

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1.72 jedis 3.3.0

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* /opt/ws_local/PERMITS_SQL/1047560748_1590497249.67/0/jedis-3-3-0-sources-

jar/redis/clients/jedis/util/RedisInputStream.java

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jar/redis/clients/jedis/util/MurmurHash.java

1.73 error_prone_annotations 2.3.4

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jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/Var.java

*
/opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RequiredModifiers.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
*
/opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/NoAllocation.java
*

/opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java
*

/opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java

* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-

jar/com/google/errorprone/annotations/MustBeClosed.java

* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-

jar/com/google/errorprone/annotations/FormatMethod.java

1.74 fdisk 2.23.2

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|------|--------|----|--------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|-------|--------|----|---------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |
| __ts_dev__2 | | 4096 | 20479 | 8192 | a5 | FreeBSD |

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

start end size fstype [fsize bsize cpg]

c: 4096 20479 16384 unused 0 0

d: 0

16064 16065 unused 0 0

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| a: | 4096 | 6144 | 2049 | 4.2BSD | 0 | 0 | 0 |
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
| d: | 0 | 16064 | 16065 | unused | 0 | 0 | |

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

| | | | | | | | |
|---|-----------|----------------|--------|---------|----------|------|-------|
| 0 | unused | 5 | 4.1BSD | 9 | 4.4LFS | d | boot |
| 1 | swap | | | | | | |
| | 6 | Eighth Edition | a | unknown | e | ADOS | |
| 2 | Version 6 | 7 | 4.2BSD | b | HPFS | f | HFS |
| 3 | Version 7 | 8 | MS-DOS | c | ISO-9660 | 10 | AdvFS |
| 4 | System V | | | | | | |

BSD disklabel command (m for help):

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jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java

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jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameTypes.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/util/collection/ShortObjectMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2Connection.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2DataWriter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2EventAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2Error.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttQoS.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameWriter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/LongObjectMap.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/client/Http2SettingsHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/server/Http2OrHttpHandler.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2LifecycleManager.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2RemoteFlowController.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2CodecUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2Flags.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameReader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/LongCollections.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/CharCollections.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/client/Http2Client.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ShortCollections.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/Headers.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/Http2ExampleUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/ByteCollections.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FlowController.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2Headers.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/IntObjectMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2Exception.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2LocalFlowController.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/IntCollections.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2Stream.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/buffer/search/KmpSearchProcessorFactory.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/buffer/search/SearchProcessor.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/buffer/search/SearchProcessorFactory.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/DefaultAddressedEnvelope.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/memcache/binary/package-info.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/memcache/MemcacheMessage.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/rxtx/RxtxClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/rxtx/RxtxClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ConstantPool.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
*
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/ConnectTimeoutException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/Promise.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/DefaultThreadFactory.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/AbstractEventExecutor.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/ChannelProgressivePromise.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/DefaultChannelProgressivePromise.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/udt/UdtServerChannelConfig.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/FullHttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/UnreleasableByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/FullHttpResponse.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/v5/Socks5AddressType.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/DefaultMessageSizeEstimator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ResourceLeakException.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpCodes.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/Native.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/PlatformDependent0.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockProtocol.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/FutureListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/UdtChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/DefaultPromise.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/WrappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/FixedCompositeByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/AppendableCharSequence.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/RecyclableArrayList.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
*

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/Future.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ReferenceCountUtil.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/PromiseTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/MemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/ProgressiveFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/cors/package-info.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/Version.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/SocksCmdType.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/ReferenceCounted.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/bootstrap/ChannelFactory.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/PendingWrite.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/TypeParameterMatcher.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/ByteBufHolder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/ProgressivePromise.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/ScheduledFuture.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/AbstractReferenceCounted.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/ResourceLeak.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/group/DefaultChannelGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/ResourceLeakDetector.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/SocksAddressType.java
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 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/AbstractDerivedByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/ChannelHandlerAdapter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/nio/SelectedSelectionKeySet.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/EmptyArrays.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/ChannelProgressiveFutureListener.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/SocksRequestType.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/memcache/MemcacheObject.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
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*/
```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/SingleThreadEventLoop.java  
*  
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/udt/echo/message/MsgEchoClientHandler.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/factorial/FactorialClientInitializer.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/multipart/FileUpload.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/logging/JdkLoggerFactory.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerBase.java  
*  
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/ChannelInboundHandler.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/timeout/WriteTimeoutException.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/ByteBufOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/upload/HttpUploadClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/snoop/HttpSnoopClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerOne.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/oio/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/SctpEchoClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/FailedChannelFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/CodecException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/Delimiters.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
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 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/CharsetUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/server/WebSocketServerIndexPage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/proxy/HexDumpProxyFrontendHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpData.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdySession.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/sctp/SctpEchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/echo/EchoServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/uptime/UptimeClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/factorial/FactorialClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpResponseDecoder.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
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jar/io/netty/bootstrap/Bootstrap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/group/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/EventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PoolChunkList.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/factorial/FactorialClient.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/SocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/VoidChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/NetUtil.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/factorial/NumberEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/SlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/bytes/ByteEchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/EventExecutor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockServerHandler.java
*

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/socksproxy/SocksServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/qotm/QuoteOfTheMomentClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/qotm/QuoteOfTheMomentServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/ByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/telnet/TelnetServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/telnet/TelnetServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/upload/HttpUploadServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/securechat/SecureChatClient.java
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/MessageAggregator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/discard/DiscardClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/SocksResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/Signal.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpContentDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/udt/echo/message/MsgEchoServerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/ByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/JZlibEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/MultithreadEventLoopGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HTTPHeaderDateFormat.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/DatagramChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/CorruptedFrameException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/AbstractChannelHandlerContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/oio/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerOne.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/telnet/TelnetClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/AbstractByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/DefaultEventLoopGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/AbstractByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpRequestEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/SucceededChannelFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/oio/AbstractOioByteChannel.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/group/CombinedIterator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/ByteBufUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/bootstrap/ServerBootstrap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http/websocketx/server/WebSocketServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/worldclock/WorldClockServer.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/serialization/ReferenceMap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/CompressionException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/udt/echo/rendezvous/Config.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/group/DefaultChannelGroupFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/IllegalReferenceCountException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/InternetProtocolFamily.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/AbstractServerChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/EventLoopGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ServerChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/message/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/Attribute.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/logging/LogLevel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolArena.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/AttributeKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelMetadata.java

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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codecs/socks/SocksInitRequestDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/echo/EchoClient.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/securechat/SecureChatServerInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codecs/rtsp/RtspMethods.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/localecho/LocalEchoClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvous/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/worldclock/WorldClockClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codecs/marshalling/ThreadLocalMarshallerProvider.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/worldclock/WorldClockClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/discard/DiscardServerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/bytes/ByteEchoClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/channel/local/LocalChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksInitRequest.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/snoop/HttpSnoopServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/Channel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/local/LocalServerChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/socksproxy/SocksServerConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/objectecho/ObjectEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/UdtChannelConfig.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/localecho/LocalEcho.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/PlatformDependent.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolSubpage.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/Attribute.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java

*

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/upload/HttpUploadClientInitializer.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/socksproxy/DirectClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/factorial/FactorialServer.java
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jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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*
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jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/UdtMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/StringUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/socksproxy/SocksServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/discard/DiscardServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/server/WebSocketServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/echo/EchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockClientInitializer.java

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/portunification/PortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/uptime/UptimeClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/HashedWheelTimer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/telnet/TelnetClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/EncoderException.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/message/MsgEchoClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/file/FileServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/DefaultAttributeMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
*
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jar/io/netty/channel/embedded/EmbeddedEventLoop.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/qotm/QuoteOfTheMomentServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/IdleState.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolChunk.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/SctpEchoServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerTwo.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/socksproxy/SocksServerHandler.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/sctp/nio/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/FailedFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/portunification/PortUnificationServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/oio/OioDatagramChannel.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/bytes/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/RecvByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/DatagramPacket.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/AbstractChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/SystemPropertyUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/SucceededFuture.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http/upload/HttpUploadServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/nio/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/rtsp/package-info.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/objectecho/ObjectEchoServerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerTwo.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/string/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/Cookie.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelPipeline.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolThreadCache.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/securechat/SecureChatServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/ByteBufInputStream.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/proxy/HexDumpProxyInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/example/proxy/HexDumpProxy.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/file/HttpStaticFileServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpClientCodec.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/rendezvousBytes/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/CompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompVersion.java
*
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/search/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/haproxy/HAProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompWebSocketClientPageHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompWebSocketChatServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompWebSocketChatServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/haproxy/HAProxyClient.java
*
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompSubscription.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/haproxy/HAProxyServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompWebSocketProtocolCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/handler/codec/haproxy/HAProxyMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompChatHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/client/SpdyClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompContentSubframe.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/server/SpdyOrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/client/package-info.java
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 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/memcache/binary/MemcacheClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/PendingWriteQueue.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SniHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/websocketx/client/WebSocketClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/example/http2/helloworld/server/Http2ServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttSubscribeMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/client/SpdyFrameLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerBenchmarkPage.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/ThreadDeathWatcher.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/IovArray.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2SecurityUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/OpenSslEngine.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/proxy/Socks5ProxyHandler.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/unix/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/AsciiString.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/Java7SslParametersUtils.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/Bzip2BitReader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/EpollEventLoop.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/EpollServerSocketChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/internal/tcnative/CertificateVerifier.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/NoopAddressResolver.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/OpenSsl.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/file/FileServerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttMessageType.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/DomainNameMapping.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyProtocolVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpHeaderValues.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/server/SpdyServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlDocumentEnd.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/json/JsonObjectDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/spdy/server/SpdyServerInitializer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsResolveContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/InternalThreadLocalMap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/SimpleNameResolver.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/xml/XmlComment.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpHeaderNames.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2FrameLogger.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/xml/XmlElement.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/xml/XmlDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/xml/XmlNamespace.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/StompSubframe.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/CipherSuiteConverter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/client/SpdyClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/Mapping.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslX509Certificate.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ipfilter/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompConstants.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnAckMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnectReturnCode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyConstants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlElementStart.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribePayload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/FastThreadLocal.java

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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/memcache/binary/MemcacheClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
ava
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlAttribute.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
*

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlEntityReference.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/server/Http2Server.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlCdata.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/AbstractEventLoop.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/server/SpdyServerHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlDocumentStart.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/stomp/StompClient.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslProvider.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslContext.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/StompCommand.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/json/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/IntegerHolder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/proxy/ProxyConnectionEvent.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/haproxy/HAProxyCommand.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/ReflectiveChannelFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/stomp/StompClientHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/StompHeaders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/ResourceLeakHint.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/AbstractEpollChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerInitializer.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/unix/UnixChannelOption.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/Epoll.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/embedded/EmbeddedChannelId.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/PemReader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/proxy/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/xml/XmlDTD.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/NativeLibraryLoader.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ipfilter/UniqueIpFilter.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/spdy/client/HttpResponseClientHandler.java
 *

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/client/SpdyClientStreamIdHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PooledHeapByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/CleanerJava6.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBroker.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/CertificateVerifierTask.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClientHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/SSLTask.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/MaxCapacityQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4XXHash32.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/Hidden.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DatagramDnsQueryContext.java

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/TcpDnsQueryContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/macos/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBrokerHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/AbstractHttp2StreamChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/svm/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ExtendedClosedChannelException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateCallbackTask.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java

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*/

/**

* Enumeration of supported Base64 dialects.

* <p>

* The internal lookup tables in this class has been derived from

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* Base64 Encoder/Decoder.

*/

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- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/flow/package-info.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java
- *
- /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ResetFrame.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/smtp/SmtpCommand.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java
- * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
- *
- /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/Log4J2Logger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameStreamException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/IntSupplier.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2HeadersFrame.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
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jar/io/netty/channel/sctp/DefaultSctpServerChannelConfig.java

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/Log4JLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java

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jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCUnboundedArrayQueue.java
*
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jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
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jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
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jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
*
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jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MPMCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
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jar/io/netty/util/internal/CleanerJava9.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/Cleaner.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
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```
*/
/**
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
```

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```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
```

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/TraceDnsQueryLifeCycleObserverFactory.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/PriorityQueue.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/bootstrap/FailedChannel.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/LongAdderCounter.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/uptime/UptimeServerHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/ssl/ocsp/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/Conscrypt.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/UncheckedBooleanSupplier.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/ObjectCleaner.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/HostsFileEntries.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/internal/ChannelUtils.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/SniCompletionEvent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2StreamChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/ByteBufAllocatorMetric.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/OptionalSslHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/ReflectionUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/EmptyPriorityQueue.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/PendingBytesTracker.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/internal/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/SuppressForbidden.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/mqtt/MqttMessageBuilders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/SslCompletionEvent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/SslClientHelloHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/ResolvedAddressTypes.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsCacheEntry.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SniHostNameMatcher.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/NettyRuntime.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/uptime/UptimeServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
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jar/io/netty/handler/codec/redis/package-info.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisMessageType.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/IntegerRedisMessage.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecUtil.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/ErrorRedisMessage.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisMessagePool.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/redis/RedisClient.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecException.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisDecoder.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-


```
jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/RedisEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/ocsp/OcspUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/ocsp/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/ocsp/Digester.java
*
```

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspRequestBuilder.java
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jar/io/netty/util/internal/logging/FormattingTuple.java
```

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*
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```
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/logging/MessageFormatter.java
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jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java
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jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpMessage.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpChannel.java
```

```
*
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```
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockProtocol.proto
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpServerChannel.java
```

```
*
```

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java

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*/

/**

* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.

*

* <h3>Sub-types</h3>

* <p>

* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:

*

* { @link

ChannelInboundHandler } to handle inbound I/O events, and

* { @link ChannelOutboundHandler } to handle outbound I/O operations.

*

* </p>

* <p>

* Alternatively, the following adapter classes are provided for your convenience:

*

* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,

* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and

* { @link ChannelDuplexHandler } to handle both inbound and outbound events

*

* </p>

* <p>

* For more information, please refer to the documentation of each subtype.

* </p>

*

* <h3>The context object</h3>

* <p>

* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }

* object. A `{ @link ChannelHandler }` is supposed to interact with the
 * `{ @link ChannelPipeline }` it belongs to via a context object. Using the
 * context object, the `{ @link ChannelHandler }` can pass events upstream or
 * downstream, modify the pipeline dynamically,
 or store the information
 * (using `{ @link AttributeKey }`s) which is specific to the handler.

*
 *

State management

* A `{ @link ChannelHandler }` often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:

```
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override}
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
```

* Because the handler instance has a state variable which is dedicated to
 * one connection, you have to create a new handler instance for each new
 * channel to avoid a race condition where a unauthenticated client can get
 * the confidential information:

```
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{ @link Channel}&gt; {
*     { @code @Override}
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
```

```

* }
*
* </pre>
*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
*
* Now that the state
of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);

```

```

*   }
* }
* </pre>
*
*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
  a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

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```

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ResourcesUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/ByteProcessorUtils.java

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jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java

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jar/io/netty/util/internal/ThreadLocalRandom.java

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jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/InetNameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/tiles/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2HandlerBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/tiles/Launcher.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DnsResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DnsRecordType.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/TcpMd5Util.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http2/tiles/HttpServer.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/UnpooledSlicedByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/UnsafeByteBufUtil.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/ThreadProperties.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http2/tiles/ImageCache.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DnsResponseCode.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DnsMessageUtil.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsNameResolverException.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/ssl/ClientAuth.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/pool/ChannelHealthChecker.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 *
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 jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/PoolSubpageMetric.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoClient.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DnsQuery.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/epoll/EpollEventArray.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/internal/PriorityQueueNode.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
 jar/io/netty/example/http2/tiles/FallbackRequestHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/HashingStrategy.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/tiles/Http1RequestHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolArenaMetric.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
 *
 /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/Errors.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/CookieUtil.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsOpCode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/AsyncMapping.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/tiles/Http2Server.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/LongCounter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsQueryContextManager.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PoolChunkMetric.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/Socket.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/tiles/Http2RequestHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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* under the License.
*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.

```

```
*/
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See TCP\_QUICKACK
 * for more details.
 */

```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
```

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express
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* the License.
*/
// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HttpConversionUtil.java

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*/

/**

* A decoder that splits the received { @link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.

*

<p>

* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.

*

* <h3>2 bytes length field at offset 0, do not strip header</h3>

*

* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.

* <pre>

* lengthFieldOffset = 0

* lengthFieldLength = 2

* lengthAdjustment = 0

* initialBytesToStrip = 0 (= do not strip header)

*

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

* +-----+-----+ +-----+-----+

* | Length | Actual Content

```

|---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>

```

```

*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | | 0x00000C | 0xCAFE | "HELLO,
* | WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero

```

```

* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x00C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)                AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/UdtChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java

*

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java


```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/HpackEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateCallback.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
*
```

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/Buffer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/Cache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/SuppressJava6Requirement.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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1.81 jctools-core 3.1.0

1.81.1 Available under license :

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

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  </repository>

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</repository>
</distributionManagement>

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  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
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</scm>

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  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
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  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
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<junit.version>4.12</junit.version>
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</project>

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Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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```

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*/

```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedListAtomicNode.java

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1.82 Iz4 1.8.3-1.e17

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Upstream-Name: liblz4

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

Source: <https://github.com/lz4/lz4>

Files: *

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1.83 e2fsprogs 1.42.9-19.el7

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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

```
all:: image
```

```
real-subdirs:: Makefile  
@echo " MKDIR pic"  
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o

23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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```
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```
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1.85 chkconfig 1.7.6-1.el7

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1.89 sed 4.2.2-7.el7

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1.91 xerces-j 2.12.2

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1.94 python 2.7.5

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |

| | | | | |
|-------|-------|-----------|-----|-----|
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
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| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
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| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |

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iniparse/compat.py and tests/test_compat.py contain code derived from lib/python-2.3/ConfigParser.py and lib/python-2.3/test/test_cfgparse.py respectively. Other code may contain small snippets from those two files as well. The Python license (LICENSE-PSF) applies to that code.

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|-----------------|
| from | | | | compatible? (1) |

| | | | | |
|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | | | |
| 2002 | PSF | | | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.96 pycurl 7.19.0

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If you have Invariant

Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c Local Variables:

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

@c End:

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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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.

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

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

compelled to copy the source along with the object code.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

of these things:

a)

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

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

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

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

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

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

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to most

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That's all there is to it!

1.100 libdb-utils 5.3.21-25.el7

1.100.1 Available under license :

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

/opt/cola/permits/1110807414_1680601714.3027513/0/libdb-5-3-21-25-el7-src-zip/libdb-5.3.21-25.el7.src/libdb-5.3.21-25.el7.src.cpio: binary file matches

Found in path(s):

* /bin/grep

1.101 qrencode-libs 3.4.1-3.el7

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

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

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

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

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

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1.104 file 5.11-37.el7

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1.108 curl 7.29.0-59.el7_9.1

1.108.1 Available under license :

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=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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yassl <http://www.yassl.com/>

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axTLS <http://axtls.sourceforge.net/>

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

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fbopenssl

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libidn <http://josefsson.org/libidn/>

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1.109 txw2 2.3.1

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Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/MoreObjects.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/util/concurrent/ServiceManagerBridge.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/base/Java8Usage.java

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jar/com/google/common/io/AppendableWriter.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/reflect/TypeToken.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/util/concurrent/FluentFuture.java

*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java
*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java

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jar/com/google/common/hash/package-info.java

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/*
* This following method is a modified version of one found in
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* which contained the following notice:
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*/
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Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/MoreExecutors.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AllEqualOrdering.java
*
```

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashMap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingDeque.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableSet.java

```
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractNavigableMap.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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*/
```

```
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MoreFiles.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/StandardTable.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Range.java
*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapKeySet.java
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*/

/**

* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
* version.

*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ShortsMethodsForWeb.java
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/*

* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the
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*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/SmallCharMatcher.java
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Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSink.java

*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/PairedStatsAccumulator.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/SipHashFunction.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractByteHasher.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LongAddables.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java

*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java

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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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jar/com/google/common/collect/Hashing.java
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*/
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 */
```

```
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler
wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Partially.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TopKSelector.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ImmutableGraph.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
```

```
*
```

```
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MutableNetwork.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ImmutableNetwork.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Graphs.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Graph.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
```


* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java

*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Network.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Striped64.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Striped64.java

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Doubles.java
*
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
*
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MultiReader.java
```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java
*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java

*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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```

Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DenseImmutableTable.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingFuture.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HostSpecifier.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/SignedBytes.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/GwtIncompatible.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SparseImmutableTable.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/UrlEscapers.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ReferenceEntry.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMakerInternalMap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeResolver.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Platform.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMaker.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilder.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Cut.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataInput.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Callables.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/html/HtmlEscapers.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Escapers.java

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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable}
to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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*/
/**
 * Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
 * version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
*
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
*
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractIndexedListAdapter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ContiguousSet.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Monitor.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/package-  
info.java  
*  
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedLists.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Ascii.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Strings.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/annotations/package-info.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/package-info.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Atomics.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/Equivalence.java
```

*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicLongMap.java
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- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CommonMatcher.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CommonPattern.java
- *
- /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/JdkPattern.java

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- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
- *
- /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/GraphConstants.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractValueGraph.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedGraphConnections.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedGraphConnections.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapIteratorCache.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableGraph.java
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```

```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/DoublesMethodsForWeb.java

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*/

/**

* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.

*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/IntsMethodsForWeb.java

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Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedAsList.java

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/package-info.java
```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/base/Function.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/package-info.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Objects.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/Closeables.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Functions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteStreams.java
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jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
*
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java
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- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java
- *
- */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BiMap.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/Multisets.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/ForwardingQueue.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/ForwardingConcurrentMap.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/ReverseNaturalOrdering.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/SortedSetMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/NullsFirstOrdering.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/SingletonImmutableSet.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/EnumHashBiMap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/Multiset.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/ForwardingListIterator.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/Ordering.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/TreeMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/LinkedListMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/AbstractSortedSetMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/ConcurrentHashMultiset.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/HashMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/AbstractSetMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/ImmutableList.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/NullsLastOrdering.java
 *
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 jar/com/google/common/collect/AbstractBiMap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/AbstractListMultimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
 jar/com/google/common/collect/Multimap.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSet.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractMapBasedMultiset.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingList.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java
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/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java

*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Internal.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java

*

*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java

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jar/com/google/common/util/concurrent/IgnoreJRERRequirement.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/ImmutableSupplier.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
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* and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap
class.
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Striped.java
```

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/GeneralRange.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedMultiset.java
```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java

*

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/cache/AbstractLoadingCache.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/base/Present.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/hash/Murmur3_32HashFunction.java
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jar/com/google/common/hash/PrimitiveSink.java
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jar/com/google/common/cache/RemovalListeners.java
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jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeParameter.java
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jar/com/google/common/collect/RegularContiguousSet.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Absent.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalNotification.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hasher.java
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 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/MediaType.java
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 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Uninterruptibles.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HostAndPort.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_128HashFunction.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Enums.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLongs.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListener.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalCause.java
 *
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/package-info.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FunctionalEquivalence.java
 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

```

jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionError.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/ForwardingCache.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/BloomFilter.java
*

```

/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.java

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

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*/

/**

* Returns an array containing all of the elements in the specified collection. This method

* returns the elements in the order they are returned by the collection's iterator. The returned

* array is "safe" in that no references to it are maintained by the collection. The caller is

* thus free to modify the returned

array.

*

* <p>This method assumes that the collection size doesn't change while the method is running.

*

* <p>TODO(kevinb): support concurrently modified collections?

*

* @param c the collection for which to return an array of elements

*/

Found in path(s):

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ObjectArrays.java

1.111 aop-alliance 1.0

1.111.1 Available under license :

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1.112 iconv 2.17

1.112.1 Available under license :

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Version 2, June 1991

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Version 3, 29 June 2007

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1.113 zlib 1.2.8

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1.114 dc 1.3

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example-Swift/DCPATHButton/Classes/DCPATHButton.h

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/DCPATHButton/Classes/DCPATHButton.m

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example-Swift/DCPATHButton/Classes/DCPATHButton.m

*

/opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/ExampleTests/ExampleTests.m

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/DCPATHButton/Classes/DCPATHButton.h

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/Example/Example/ViewController.m

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
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```

```
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```

Found in path(s):

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
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```

Pod::Spec.new do |s|

```
s.name      = "DCPathButton"
s.version   = "2.1.1"
s.summary   = " A beautiful button copy from Path® "
```

```
s.description = <<-DESC
```

```
DCPathButton is a menu button, design by an famous App Path®.
Since Path® 4.0, it return to use a tab bar instead of a side bar,
and also change the menu button. So I try to implement it and then
the DCPathButton born :)
```

```
DESC
```

```
s.homepage = "https://github.com/Tangdixi/DCPathButton"
```

```
s.license = {
  :type => 'MIT',
  :text => 'The DCPathButton use the MIT license'
}
```

```
s.author = { "Tangdixi" => "Tangdixi@gmail.com" }
```

```
s.platform = :ios, '7.0'
```

```
s.source = {
  :git => "https://github.com/Tangdixi/DCPathButton.git",
  :tag => "2.1.1"
}
```

```
}  
  
s.source_files = 'DCPathButton/Classes/*.{h,m}'  
  
s.resources = ["DCPathButton/Sounds/*"]  
  
s.frameworks = 'QuartzCore','AudioToolbox'  
  
s.requires_arc = true  
  
end
```

Found in path(s):

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
```

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Found in path(s):

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/LISENCE
```

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines"
```

minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">

Found in path(s):

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib

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Acknowledgements

This application makes use of the following third party libraries:

DCPATHButton

The DCPATHButton use the MIT license

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md

1.115 centos-release 7-9.2009.1.el7.centos

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Special Recognition

One of the key reasons we got delayed on the CentOS-6 release was lack of
suitable build resources, especially when we had to repeatedly build large
chunks of code. Norwood S came forward and worked with me to
setup a large build machine, then tune the build process and help improve
the overall build, test and validate process we were using. This build
machine he donated to the project was about 5 times more capable than the
entire buildsystem we had. And he did this out of his own pocket, from
his

own time, and has since upgraded the machine as well. It's now a 128GB,
48 core machine, with 4 SSD's and 4 sata disks : but the key metric is
that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver
CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
AZ, USA for his continued support for the project.

Contributors:

The Red Hat developers, without whom CentOS would look very different

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1.117 httpcomponents-core 4.4.13

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1.119 commons-lang3 2.6

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogFactory.java

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jar/org/apache/commons/logging/impl/AvalonLogger.java

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jar/org/apache/commons/logging/impl/WeakHashtable.java
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Found in path(s):

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html
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Found in path(s):

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java

```
*
/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
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```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

1.124 commons-cli 1.4

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1.127 hibernate-commons-annotations

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1.128 javassist 3.27.0-GA

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 */
```

Found in path(s):

```
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Visitor.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/Mnemonic.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
```

```

jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMember.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/URLClassPath.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/NestMembersAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/AttributeInfo.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/DefinePackageHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Modifier.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/MethodInfo.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMethod.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/NewExpr.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/FieldDecl.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Variable.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/framedump.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/Bytecode.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClassType.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtBehavior.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/MemberCodeGen.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
*

/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/BadHttpRequest.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/ExprEditor.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/Dump.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java
*

/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/Viewer.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/SerialVersionUID.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java
*

/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/tools/reflect/Metaobject.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/stackmap/MapMaker.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/compiler/JvstTypeChecker.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/convert/TransformReadField.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Loader.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/StackMapTable.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPoolTail.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPath.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/HotSwapper.java
 *
 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Javac.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/analysis/ControlFlow.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Opcode.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/analysis/Executor.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/tools/web/Webserver.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/LongVector.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/util/proxy/ProxyObjectOutputStream.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/compiler/ast/CastExpr.java
 *
 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/DeprecatedAttribute.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClass.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Translator.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/bytecode/CodeAttribute.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/NewArray.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassClassPath.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/compiler/ast/IntConst.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/util/proxy/MethodHandler.java
 *
 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/convert/TransformNew.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
 jar/javassist/scopedpool/ScopedClassPoolRepository.java

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Cast.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java
*

/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java

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Found in path(s):

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

```
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
```

1.129 classmate 1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.130 zt 1.14

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Found in path(s):

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/AsiExtraField.java
*
/opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipLong.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipExtraField.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipShort.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ExtraFieldUtils.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipConstants.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/UnrecognizedExtraField.java

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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FileExistsException.java

*

/opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/IOUtils.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FileUtilsV2_2.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/StringBuilderWriter.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/commons/FilenameUtils.java

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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZTFileUtil.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipInfoCallback.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/NameMapper.java

*

/opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/FileSource.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntryUtil.java

```
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/Zips.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/timestamps/TimestampStrategy.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/ByteSource.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/timestamps/Java8TimestampStrategy.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/ZipEntrySource.java
*
/opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/IdentityNameMapper.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipUtil.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/ZipEntryCallback.java
```

1.131 httpcomponents-mime 4.5.12

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1.132 jakarta-validation-api 2.0.2

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```

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```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
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jar/javax/validation/package-info.java
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~

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1.133 jakarta-el-api 3.0.3

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Upstream-Name: liblz4

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

Source: <https://github.com/lz4/lz4>

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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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The hypothetical commands

```
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Jan 21, 2002

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```
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@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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```
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Version 2.1, February 1999

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

HISTORY -

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

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the

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

Some other contributors:

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

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)

subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Directory native/fdlibm

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* m4/ax_func_which_gethostbyname_r.m4

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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

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

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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

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

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

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

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

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

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

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

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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The

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

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is invoked, then you must make a good faith effort to ensure that,
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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
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application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still
compute square roots.)

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

@item

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When a "work that uses the Library" uses material from a header file

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@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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1.153 basesystem 10.0-7.el7.centos

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Summary: The skeleton package which defines a simple CentOS Linux system

Name: basesystem

Version: 10.0

Release: 7%{?dist}

License: Public Domain

Group: System Environment/Base

Requires(pre): setup filesystem

BuildRoot: %(mktemp -ud %[_tmppath]/{name}-%{version}-%{release}-XXXXXX)

BuildArch: noarch

%description

Basesystem defines the components of a basic CentOS Linux system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

%prep

%build

%install

%clean

%files

%defattr(-,root,root,-)

%changelog

* Fri Jun 27 2014 Johnny Hughes <johnny@centos.org> - 10.0-7.el7.centos
- Roll in CentOS Branding

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 10.0-7
- Mass rebuild 2013-12-27

* Tue Mar 06 2012 Ondrej Vasik <ovasik@redhat.com> 10.0-6
- remove again reference to Fedora after RHEL-7 import(#800464)

* Thu
Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
- fix FTBFS typo (#715640), add disttag

* Fri May 21 2010 Ondrej Vasik <ovasik@redhat.com> - 10.0-4
- remove reference to Fedora, add dist tag
Related: rhbz#566527

* Mon Apr 26 2010 Dennis Gregorovic <dgregor@redhat.com> - 10.0-3.2
- Rebuilt for RHEL 6
Related: rhbz#566527

* Mon Apr 26 2010 Dennis Gregorovic <dgregor@redhat.com> - 10.0-3.1
- Rebuilt for RHEL 6
Related: rhbz#566527

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
- Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
- Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating

<jkeating@redhat.com> - 8.0-5.1.1
- rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
- rebuilt

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>
- rebuilt

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

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

* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>
- bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Tue Jun 6 2000 Bill Nottingham <notting@redhat.com>
- rebuild. Wheee.

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
- don't require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
- require rpm

* Wed Dec 30
1998 Cristian Gafton <gafton@redhat.com>
- build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>

- made a noarch package

Found in path(s):

* /opt/cola/permits/1151233448_1617817524.04/0/basesystem-10.0-7.el7.centos.src.rpm-cosi-expand-archive-tqrtl4Z0/basesystem.spec

1.154 gpg-pubkey f4a80eb5-53a7ff4b

1.154.1 Available under license :

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```
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##+TITLE: List of code with permissive licenses as used by GnuPG.  
##+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

Originally:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu

1987 James A. Woods ames!jaw

1993 Christopher Seiwald seiwald@vix.com

2000, 2002 Christopher Seiwald <seiwald@perforce.com>

2010 Steve Bennett <steveb@workware.net.au>

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Public License instead of this License.

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

| | | | | | | |
|-------------|--|------|------|------|----|-------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |
|-------------|--|------|------|------|----|-------|

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|-------|--------|----|---------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |
| __ts_dev__2 | | 4096 | 20479 | 8192 | a5 | FreeBSD |

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|--------|--------|--------|-------|------|
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
| d: | 0 | | | | | | |
| | 16064 | 16065 | unused | 0 | 0 | | |

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| a: | 4096 | 6144 | 2049 | 4.2BSD | 0 | 0 | 0 |
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |

d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap
6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

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1.157 javax-persistence-api 2.2

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*
* Contributors:
*   Linda DeMichiel - Java Persistence 2.1
*   Linda DeMichiel - Java Persistence 2.0
*
*****/

```

Found in path(s):

```

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/FieldResult.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/EntityResult.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/ColumnResult.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/LockModeType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/spi/PersistenceProvider.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/Enumerated.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/SharedCacheMode.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

```

jar/javax/persistence/Inheritance.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/spi/PersistenceUnitInfo.java

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* Contributors:

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* Linda DeMichiel - Java Persistence 2.0

*

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Found in path(s):

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/ValidationMode.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/PersistenceUnitUtil.java

*

/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/QueryHint.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/RollbackException.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/Tuple.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/ManyToMany.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/metamodel/CollectionAttribute.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/PessimisticLockScope.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/criteria/CompoundSelection.java

*

/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/OrderBy.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/Lob.java

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/criteria/MapJoin.java

```

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/TupleElement.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/package-info.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/AccessType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/EmbeddableType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/Embeddable.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/SecondaryTables.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/NamedNativeQueries.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/CollectionTable.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/Root.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/package-info.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/Join.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/IdentifiableType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/From.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/PreRemove.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/ElementCollection.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/PostRemove.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/EntityExistsException.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/Entity.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/GeneratedValue.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/ManagedType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/CacheRetrieveMode.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/CascadeType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

```

```

jar/javax/persistence/PersistenceContexts.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/Persistence.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/TemporalType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/Metamodel.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/spi/ClassTransformer.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/PersistenceException.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/Order.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/Path.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/PersistenceProperty.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/Predicate.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/MapsId.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/FlushModeType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/OneToMany.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/AbstractQuery.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/SetJoin.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/ManyToOne.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/CacheStoreMode.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/CollectionJoin.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/PersistenceUtil.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/spi/LoadState.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/spi/PersistenceProviderResolver.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/QueryTimeoutException.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/spi/ProviderUtil.java

```

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/criteria/CriteriaBuilder.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/ExcludeDefaultListeners.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/ConstructorResult.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Embedded.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/metamodel/Attribute.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/criteria/CommonAbstractCriteria.java
 *
 /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/metamodel/MapAttribute.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/OptimisticLockException.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PrePersist.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/JoinColumns.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Version.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Basic.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PersistenceUnits.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityNotFoundException.java
 *
 /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/criteria/ListJoin.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/MapKey.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/OrderColumn.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityTransaction.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/metamodel/EntityType.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/SqlResultSetMappings.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Cacheable.java
 *
 /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/NamedQueries.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-

jar/javax/persistence/InheritanceType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/criteria/CriteriaQuery.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/ListAttribute.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/Column.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/IdClass.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/BasicType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
jar/javax/persistence/metamodel/package-info.java
*
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jar/javax/persistence/EntityManagerFactory.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/JoinTable.java
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 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Temporal.java
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 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PersistenceContextType.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityManager.java
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 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/metamodel/MappedSuperclassType.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/criteria/PluralJoin.java
 * /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/ExcludeSuperclassListeners.java
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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/GenerationType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PostLoad.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/LockTimeoutException.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/NonUniqueResultException.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/spi/package-info.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/NoResultException.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/UniqueConstraint.java
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/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/MapKeyColumn.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Transient.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/DiscriminatorType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/FetchType.java
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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/TransactionRequiredException.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityListeners.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/spi/PersistenceUnitTransactionType.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PostPersist.java

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- * Petros Splinakis - Java Persistence 2.2
- * Linda DeMichiel - Java Persistence 2.0 - Version 2.0 (October 1 - 2013)
- * Specification available from <http://jcp.org/en/jsr/detail?id=317>

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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/NamedEntityGraphs.java

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jar/javax/persistence/Converts.java
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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-
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*/
```

Found in path(s):

```
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-  
jar/javax/persistence/Query.java  
*  
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-  
jar/javax/persistence/SequenceGenerator.java  
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-  
jar/javax/persistence/TableGenerator.java  
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-  
jar/javax/persistence/TypedQuery.java  
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-  
jar/javax/persistence/spi/PersistenceProviderResolverHolder.java  
No license file was found, but licenses were detected in source scan.
```

```
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* http://www.eclipse.org/org/documents/edl-v10.php.  
*  
* Contributors:  
*   Linda DeMichiel - Java Persistence 2.1  
*  
*/
```

Found in path(s):

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/ParameterMode.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/StoredProcedureQuery.java
*
/opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/ForeignKey.java

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Found in path(s):

* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/orm_2_0.xsd
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/persistence_2_0.xsd

1.158 kitchen 1.1.1

1.158.1 Available under license :

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Version 2.1, February 1999

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1.159 pyxattr 0.5.1

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1.162 glib 2.56.1-9.el7_9

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1.165 libgcc 4.8.5-44.el7

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Jan 21, 2002

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec Preamble

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The ordinary

General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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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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@c man begin DESCRIPTION
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<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

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The current gcc-4.8 source package is taken from the SVN gcc-4_8-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|---------------|------------------|-----------------|--------------------|
| Ada | gnat-4.8 | | |
| | libgnat-4.8 | gnat-4.8-doc | |
| C | gcc-4.8 | | gcc-4.8-doc |
| C++ | g++-4.8 | libstdc++6 | libstdc++6-4.8-doc |
| D | gdc-4.8 | | |
| Fortran 95 | gfortran-4.8 | libgfortran3 | gfortran-4.8-doc |
| Go | gccgo-4.8 | libgo0 | |
| Java | gcj-4.8 | libgcj10 | libgcj-doc |
| Objective C | gobjc-4.8 | libobjc2 | |
| Objective C++ | gobjc++-4.8 | | |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources | Development | Debugging | Position-Independent |
|----------|---------|--------------------|--------------------|----------------------|
| C++ | | libstdc++6-4.8-dbg | libstdc++6-4.8-pic | |

D libphobos-4.8-dev
Java libgcj10-src libgcj10-dev libgcj10-dbg

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

GCC intrinsics (platform-dependent)

gcc-4.8-base Base files common to all compilers
gcc-4.8-soft-float Software floating point (ARM only)
gcc-4.8-source The sources with patches

Ada:

libgnatvsn-dev, libgnatvsn4.8 GNAT version library
libgnatprj-dev, libgnatprj4.8 GNAT Project Manager library

C:

cpp-4.8, cpp-4.8-doc GNU C Preprocessor
libmudflap0-dev, libmudflap0 Library for instrumenting pointers
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files
protoize Create/remove ANSI prototypes from C code

Java:

gij The Java bytecode interpreter and VM
libgcj-common Common files for the Java run-time
libgcj10-awt The Abstract Windowing Toolkit
libgcj10-jar Java ARchive
for the Java run-time

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- The libgnat-4.8 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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ldexpq.c:

- * Conversion to long double by Ulrich Drepper,
- * Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c, sinq_kernel.c, truncq.c:

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isinfq.c:

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Cephes Math Library Release 2.2: January, 1991

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gcc/go/gofrontend, libgo:

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D:
gdc-4.8 GNU D Compiler
libphobos-4.8-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- `d/dmd/*`

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The Zlib data compression library:
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The Phobos standard runtime library:
- `d/phobos/*`

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By plainly marking modifications, something along the lines of adding to each file that has been changed a "Modified by Foo Bar" line underneath the "Written by" line would be adequate. This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

More recent contributors are mentioned in the modification history in

README.changes. My apologies for any omissions.

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't

made it into the released version of the collector, yet.)

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1998-05-11

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David Megginson, david@megginson.com
2000-05-05

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* m4/ax_func_which_gethostbyname_r.m4

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

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If the program does terminal interaction, make it output a short
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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
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1.166 libcurl 7.29.0-59.el7_9.1

1.166.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original

BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgp-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:

<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:

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1.167 libstdc++ 4.8.5-44.el7

1.167.1 Available under license :

Jan 21, 2002

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Version 2.1, February 1999

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

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

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

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

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3. You may opt to apply the terms of the ordinary

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

code for the work under the terms of Section 6.

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

must be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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- d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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These requirements apply to the modified work as a whole. If
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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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)

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```
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<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)
<svn://gcc.gnu.org/svn/gcc/> (for prereleases)
<http://bitbucket.org/goshawk/gdc> (for D)

The current gcc-4.8 source package is taken from the SVN gcc-4_8-branch.

Changes: See [changelog.Debian.gz](#)

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|------------|------------------|-----------------|--------------------|
| Ada | gnat-4.8 | | |
| | libgnat-4.8 | gnat-4.8-doc | |
| C | gcc-4.8 | | gcc-4.8-doc |
| C++ | g++-4.8 | libstdc++6 | libstdc++6-4.8-doc |
| D | gdc-4.8 | | |
| Fortran 95 | gfortran-4.8 | libgfortran3 | gfortran-4.8-doc |
| Go | gccgo-4.8 | libgo0 | |

Java gcj-4.8 libgcj10 libgcj-doc
 Objective C gobjc-4.8 libobjc2
 Objective C++ gobjc++-4.8

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources | Development | Debugging | Position-Independent |
|----------|-------------------|--------------------|--------------------|----------------------|
| C++ | | libstdc++6-4.8-dbg | libstdc++6-4.8-pic | |
| D | libphobos-4.8-dev | | | |
| Java | libgcj10-src | libgcj10-dev | libgcj10-dbg | |

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

GCC intrinsics (platform-dependent)

| | |
|--------------------|------------------------------------|
| gcc-4.8-base | Base files common to all compilers |
| gcc-4.8-soft-float | Software floating point (ARM only) |
| gcc-4.8-source | The sources with patches |

Ada:

libgnatvsn-dev, libgnatvsn4.8 GNAT version library
 libgnatprj-dev, libgnatprj4.8 GNAT Project Manager library

C:

| | |
|------------------------------|---|
| cpp-4.8, cpp-4.8-doc | GNU C Preprocessor |
| libmudflap0-dev, libmudflap0 | Library for instrumenting pointers |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0 | Math routines for the __float128 type |
| fixincludes | Fix non-ANSI header files |
| protoize | Create/remove ANSI prototypes from C code |

Java:

| | |
|---------------|--------------------------------------|
| gij | The Java bytecode interpreter and VM |
| libgcj-common | Common files for the Java run-time |
| libgcj10-awt | The Abstract Windowing Toolkit |
| libgcj10-jar | Java ARchive |
| | for the Java run-time |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
 libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some

libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm

- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- The libgnat-4.8 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.

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Written by Tobias Burnus <burnus@net-b.de>

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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- * Conversion to long double by Ulrich Drepper,
- * Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c,
sinq_kernel.c, truncq.c:

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isinfq.c:

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llroundq.c, lroundq.c, tgammaq.c:

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log10q.c:

Cephes Math Library Release 2.2: January, 1991

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Adapted for glibc November, 2001

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gcc/go/gofrontend, libgo:

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D:

gdc-4.8 GNU D Compiler
libphobos-4.8-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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Modified by Vincenzo Ampolo, Michael Parrot, Iain Buclaw, (C) 2009, 2010

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The DMD Compiler implementation of the D programming language:

- d/dmd/*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:

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By plainly marking modifications, something along the lines of adding to each file that has been changed a "Modified by Foo Bar" line underneath the "Written by" line would be adequate.

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't

made it into the released version of the collector, yet.)

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David Megginson,
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* m4/ax_func_which_gethostbyname_r.m4

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

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

```
Ty Coon, President of Vice
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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|------|--------|----|--------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|------|--------|----|--------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |

__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|---|-------|-----|------|--------|--------|-------|------|
|---|-------|-----|------|--------|--------|-------|------|

| | | | | | | | |
|----|------|-------|-------|--------|---|---|--|
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
|----|------|-------|-------|--------|---|---|--|

| | | | | | | | |
|----|---|--|--|--|--|--|--|
| d: | 0 | | | | | | |
|----|---|--|--|--|--|--|--|

| | | | | | | | |
|--|-------|-------|--------|---|---|--|--|
| | 16064 | 16065 | unused | 0 | 0 | | |
|--|-------|-------|--------|---|---|--|--|

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|---|-------|-----|------|--------|--------|-------|------|
|---|-------|-----|------|--------|--------|-------|------|

| | | | | | | | |
|----|------|------|------|--------|---|---|---|
| a: | 4096 | 6144 | 2049 | 4.2BSD | 0 | 0 | 0 |
|----|------|------|------|--------|---|---|---|

| | | | | | | | |
|----|------|-------|-------|--------|---|---|--|
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
|----|------|-------|-------|--------|---|---|--|

| | | | | | | | |
|----|---|-------|-------|--------|---|---|--|
| d: | 0 | 16064 | 16065 | unused | 0 | 0 | |
|----|---|-------|-------|--------|---|---|--|

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

```
0 unused      5 4.1BSD      9 4.4LFS      d boot
1 swap
      6 Eighth Edition  a unknown    e ADOS
2 Version 6    7 4.2BSD      b HPFS       f HFS
3 Version 7    8 MS-DOS      c ISO-9660   10 AdvFS
4 System V
```

BSD disklabel command (m for help):

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*/

1.169 libcom-err 1.42.9-19.el7

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.170 libmount 2.23.2-65.el7_9.1

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```
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This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
```

```
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
```

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|------|--------|----|--------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023

bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|-------|--------|----|---------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |
| __ts_dev__2 | | 4096 | 20479 | 8192 | a5 | FreeBSD |

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
| d: | 0 | 16064 | 16065 | unused | 0 | 0 | |

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| a: | 4096 | 6144 | 2049 | 4.2BSD | 0 | 0 | 0 |
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
| d: | 0 | 16064 | 16065 | unused | 0 | 0 | |

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

| | | | | | | | |
|---|-----------|---|----------------|---|----------|----|-------|
| 0 | unused | 5 | 4.1BSD | 9 | 4.4LFS | d | boot |
| 1 | swap | | | | | | |
| | | 6 | Eighth Edition | a | unknown | e | ADOS |
| 2 | Version 6 | 7 | 4.2BSD | b | HPFS | f | HFS |
| 3 | Version 7 | 8 | MS-DOS | c | ISO-9660 | 10 | AdvFS |
| 4 | System V | | | | | | |

BSD disklabel command (m for help):

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*/

1.171 jakarta xml bind api 2.3.3

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1.173 kmod-libs 20-28.el7

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1.175 commons-compress 1.21

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1.176 device-mapper 1.02.170-6.el7_9.5

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core/src/main/java/org/jctools/queues/MpmcArrayQueue.java

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jar/rx/internal/operators/OnSubscribeReduce.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/SuppressAnimalSniffer.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribePublishMulticast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOperatorZip.java
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* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/util/Pow2.java
*/

```

Found in path(s):

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/Pow2.java
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Found in path(s):

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeConcat.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOperatorCast.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/ConnectableObservable.java

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/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func7.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaPlugins.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/BooleanSubscription.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/MissingBackpressureException.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkipWhile.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAsObservable.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorToObservableSortedList.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorElementAt.java

*

/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BufferUntilSubscriber.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
 jar/rx/internal/operators/OperatorDoOnSubscribe.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
 jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
 jar/rx/internal/operators/OperatorWithLatestFromMany.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/IndexedRingBuffer.java
 *
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 jar/rx/internal/util/BackpressureDrainManager.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
 jar/rx/internal/operators/OperatorTakeUntil.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkip.java
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 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
 jar/rx/internal/operators/OnSubscribeAmb.java
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 jar/rx/internal/operators/OperatorIgnoreElements.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
 jar/rx/internal/operators/OperatorDoOnRequest.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OnSubscribeToMap.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/PublishSubject.java
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/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action9.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func9.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Scheduler.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/SyncOnSubscribe.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action4.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action3.java
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jar/rx/internal/operators/BlockingOperatorLatest.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OperatorMaterialize.java
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jar/rx/subscriptions/MultipleAssignmentSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOnSubscribeMap.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/OnCompletedFailedException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorThrottleFirst.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ImmediateScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/TestSubscriber.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorUnsubscribeOn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSequenceEqual.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorToObservableList.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSkipLast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subjects/SubjectSubscriptionManager.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action8.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTakeWhile.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeMap.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SerializedObserver.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorZip.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action1.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMapNotification.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TestScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeTimeout.java

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/TestObserver.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/OnErrorNotImplementedException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/ImmediateScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorZipIterable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subscriptions/RefCountSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeSwitchIfEmpty.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/plugins/RxJavaObservableExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func3.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BlockingOperatorMostRecent.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeDoOnEach.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/Observers.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaErrorHandler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAny.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/observables/BlockingObservable.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func2.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeMerge.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action7.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorCast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/CachedThreadScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Subscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDelay.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeJoin.java
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/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeUsing.java

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/BehaviorSubject.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action6.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/GroupedObservable.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/EventLoopsScheduler.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeAutoConnect.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorToFuture.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaObservableExecutionHookDefault.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/ReplaySubject.java
 *
 /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDoOnUnsubscribe.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action2.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTimeInterval.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func5.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeRedo.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFilter.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorToIterator.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeSubscriber.java
 *
 /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorService.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTakeLastTimed.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CachedObservable.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/LinkedList.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTakeUntilPredicate.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func1.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/Subscriptions.java
 *
 /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/Exceptions.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/SerialSubscription.java
 * /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

```

jar/rx/subscriptions/CompositeSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSkipLastTimed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMerge.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/CompositeException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnErrorThrowable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/schedulers/NewThreadScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/UnicastSubject.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/OnErrorFailedException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/SleepingAction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action0.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/TestSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/AsyncSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BlockingOperatorNext.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/ActionN.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeToObservableFuture.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/SerializedSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/FuncN.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorScan.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/schedulers/TrampolineScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTake.java

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*/

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpscUnboundedAtomicArrayQueue.java
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*/

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/LinkedQueueNode.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/BlockingSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/AsyncOnSubscribe.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/BlockingUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleSubscriber.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/CompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleEmitter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OnSubscribeCombineLatest.java

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* Modified from <http://www.javacodegeeks.com/2013/08/simple-and-lightweight-pool-implementation.html>

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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert

UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:

<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

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*/

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/ConcurrentCircularArrayQueue.java
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```

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```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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    * This mechanism for getting UNSAFE originally from:
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    *
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    * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
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```

```
    */
```

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```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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*/

Found in path(s):

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/SpSCArrayQueue.java

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*/

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core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
 */
```

Found in path(s):

```
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/atomic/AtomicReferenceArrayQueue.java
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core/src/main/java/org/jctools/queues/SpSCUnboundedArrayQueue.java
 */
```

Found in path(s):

```
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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 */
```

Found in path(s):

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/ProducerObserverArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/QueuedProducer.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BackpressureUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/ProducerArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleDelayedProducer.java

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```
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMulticast.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMapPair.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorEagerConcatMap.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDistinct.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ScheduledAction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDebounceWithSelector.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
```


* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/RxThreadFactory.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeSkipTimed.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkipUntil.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorPublish.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/PlatformDependent.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDelayWithSelector.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTakeTimed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithSize.java
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/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorOnBackpressureLatest.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OperatorSampleWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWithLatestFrom.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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- * This plugin class provides 2 ways to customize {@link Scheduler} functionality
- * 1. You may redefine entire schedulers, if you so choose. To do so, override
 - * the 3 methods that return Scheduler (io(), computation(), newThread()).
 - * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
 - * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler, Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 - * modify Scheduler functionality without redefining Schedulers wholesale.
- * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
- * <p>
 - * See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
 - * https://github.com/ReactiveX/RxJava/wiki/Plugins.

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*

/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpSCAtomicArrayQueue.java

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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java>
*/

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/ConcurrentSequencedCircularArrayQueue.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Emitter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilObservable.java
*
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeCompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionObserver.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeThrow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilCompletable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/package-info.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/InternalObservableUtils.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/BackpressureOverflow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaCompletableExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnUnsubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/Unsubscribed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnErrorReturn.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssembly.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromEmitter.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/CancellableSubscription.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleObserveOn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AssertableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/observers/AssertableSubscriberObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

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jar/rx/internal/operators/SingleFromCallable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/ObserverSubscriber.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/AssemblyStackTraceException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleFromFuture.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleTakeUntilSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Cancellable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/EmptyObservableHolder.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleToObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/SchedulerWhen.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/NeverObservableHolder.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/observers/AsyncCompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/SchedulePeriodicHelper.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeFlattenIterable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaHooks.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDelay.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleTimeout.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleDoOnSubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionSubscriber.java
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*/

Found in path(s):

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/Experimental.java
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```

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorGroupByEvicting.java

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1.183 libxml2-python 2.9.1-6.el7_9.6

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1.184 xorg-randr 1.5.1

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1.185 binutils 2.27-44.base.el7_9.1

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

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Version 3, 29 June 2007

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[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.]

@end display

@appendixsubsec Preamble

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freedom to share and change it. By contrast, the GNU General Public
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free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of
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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.

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To protect your rights, we need to make restrictions that forbid

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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.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library.

The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it

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

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

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

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

`@iftex`

`@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION`

`@end iftex`

`@ifinfo`

`@center GNU LESSER GENERAL PUBLIC LICENSE`

`@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION`

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However,

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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.

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@item

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@item

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

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

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

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@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

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

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

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

@smallexample

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

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

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other

reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.186 icu4j 69.1

1.186.1 Available under license :

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1. ICU License - ICU 1.8.1 to ICU
57.1

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2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

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support/man2html.c

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1.190 jackson 2.15.0

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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1.191 rpm 4.11.3-48.el7_9

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1.192 scala-reflect 2.12.15

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1.193 httpasyncclient 4.1.5

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1.196 libxml2 2.9.1-6.el7_9.6

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1.199 log4j-jcl 2.17.1

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1.200 unzip 6.0-24.el7_9

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

5.42, the complete

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

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

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- *
- * A collection of File Manager and related routines
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- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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1.201 hikaricp 4.0.3

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jar/com/zaxxer/hikari/HikariJNDIFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/HikariPool.java
*
/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/MetricsTracker.java
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```

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Found in path(s):

* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/IMetricsTracker.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/IsolationLevel.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
*
/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
*
/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTrackerFactory.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
*
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java


```
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/util/PropertyElf.java
*
/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyStatement.java
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```
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/PoolStats.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/util/ClockSource.java
```

1.202 dom 1.0

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jar/org/w3c/dom/html/HTMLDOMImplementation.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ElementEditAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObject.java

*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java

*

```
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java
```

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*/
```

```
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If
so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */
```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
```

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/**
* DOM Level 3 LS CR - Experimental.
* Create a new LSParser. The newly constructed parser may
*
then be configured by means of its DOMConfiguration
* object, and used to parse documents by means of its parse
* method.
* @param mode The mode argument is either
* MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
* mode is MODE_SYNCHRONOUS then the
* LSParser that is created will operate in synchronous
* mode, if it's MODE_ASYNCHRONOUS then the
* LSParser that is created will operate in asynchronous
* mode.
* @param schemaType An absolute URI representing the type of the schema
* language used during the load of a Document using the
* newly created LSParser. Note that no lexical checking
* is done on the absolute URI. In order to create a
* LSParser for any kind of schema types (i.e. the
* LSParser will be free to use any schema
found), use the value
* null.
* 

<b>Note:</b> For W3C XML Schema [XML Schema Part 1</a>\]
\* , applications must use the value
\* "http://www.w3.org/2001/XMLSchema". For XML DTD \[XML 1.0</a>\\],
\\* applications must use the value
\\* "http://www.w3.org/TR/REC-xml". Other Schema languages
\\* are outside the scope of the W3C and therefore should recommend an
\\* absolute URI in order to use this method.
\\* @return The newly created LSParser object. This


```

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

Found in path(s):

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java`

*

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java`

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java`

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java`

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/ShadowedSymbolTable.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLImgElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLOptgroupElement.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/parser/XMLInputSource.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLImgElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLTimerElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSParticle.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLWmlElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/StringList.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLTimerElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLAnchorElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xml/serialize/HTMLSerializer.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLHtmlElementImpl.java
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jar/org/apache/wml/WMLInputElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLTableElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/stax/events/ElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/SoftReferenceSymbolTableConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xpointer/ShortHandPointer.java
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 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/BasicParserConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/SecurityConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLTDElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLDListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeepNodeListImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/NotationImpl.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSModelGroupDefinition.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/stax/events/EndElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLBrElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/XMLStringBuffer.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DocumentFragmentImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLTableRowElementImpl.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLLOListElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLInputElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/SecureProcessingConfiguration.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/NamedNodeMapImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSFacet.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLGoElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xml/serialize/Printer.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLRefreshElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DOMNormalizer.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/stax/EmptyLocation.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xml/serialize/BaseMarkupSerializer.java
 *
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
 *
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLDocumentImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/xpath/regex/ParseException.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLModElementImpl.java
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 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredElementNSImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLDoElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/RevalidationHandler.java

*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java

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*/

/**

* used to check the 3 constraints against each complex type

* (should be each model group):

* Unique Particle

Attribution, Particle Derivation (Restriction),

* Element Declarations Consistent.

*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java

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jar/org/apache/xerces/xs/datatypes/package.html

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```

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
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```

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```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties

1.203 hdrhistogram 2.1.8

1.203.1 Available under license :

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```
/*  
* package-info.java  
* Written by Gil Tene of Azul Systems, and released to the public domain,  
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*/
```

Found in path(s):

* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/package-info.java

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```
/**  
* Written by Gil Tene of Azul Systems, and released to the public domain,  
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*/
```

Found in path(s):

* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/WriterReaderPhaser.java

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```
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*  
* @author Gil Tene  
*/
```

Found in path(s):

* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/DoublePercentileIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/HistogramLogReader.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/RecordedValuesIterator.java
*
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/ShortCountsHistogram.java
*
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/DoubleHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/DoubleRecorder.java
*


```
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AbstractHistogramLogReader.java
*
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/EncodableHistogram.java
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```

```
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 * as explained at http://creativecommons.org/publicdomain/zero/1.0/
 *
 * @author Gil Tene
 */
```

```
package org.HdrHistogram;
```

```
final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}
```

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

```
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/Version.java.template
```

1.204 opentracing-noop 0.31.0

1.204.1 Available under license :

```
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```

```
/*
```

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Found in path(s):

* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpan.java
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopScopeManager.java
*
/opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanContext.java
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracer.java
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java

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express
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the License.

Found in path(s):

* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-noop/pom.xml

1.205 jetty-setuid-java 1.0.4

1.205.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/RLimit.java
*
/opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Passwd.java
```

1.206 profiler 1.1.1

1.206.1 Available under license :

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```
/*!
* jQuery JavaScript Library v1.6.2
* http://jquery.com/
*
* Copyright 2011, John Resig
* Dual licensed under the MIT or GPL Version 2 licenses.
* http://jquery.org/license
*
* Includes Sizzle.js
* http://sizzlejs.com/
* Copyright 2011, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
*
```

* Date: Thu Jun 30 14:16:56 2011 -0400

*/

Found in path(s):

* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/jquery-1.6.2.min.js

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

/*

* jQuery Templates Plugin 1.0.0pre

* <http://github.com/jquery/jquery-tmpl>

* Requires jQuery 1.4.2

*

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* <http://jquery.org/license>

*/

Found in path(s):

* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/jquery.templ.min.js

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/**

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*/

Found in path(s):

* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-

```
jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfiler.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerServlet.java
```

1.207 dagger 2.4

1.207.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Lazy.java
```

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Found in path(s):

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DelegateFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/MapKey.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Component.java
*
/opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/InstanceFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SingleCheck.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Factory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapProviderFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Collections.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SetFactory.java
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* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Provides.java
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* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MembersInjectors.java

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Found in path(s):

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Multibindings.java

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/package-info.java

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntKey.java

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/StringKey.java

*

/* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/LongKey.java

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Beta.java

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/ClassKey.java

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Subcomponent.java

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*/

Found in path(s):

* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Reusable.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/ProviderOfLazy.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Binds.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Preconditions.java
*
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DoubleCheck.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-
jar/dagger/multibindings/ElementsIntoSet.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoMap.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/package-info.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoSet.java
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1.208 paranamer 2.5.1

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jar/com/thoughtworks/paranamer/NullParanamer.java  
\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-  
jar/com/thoughtworks/paranamer/AdaptiveParanamer.java  
\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-  
jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java  
\*  
/opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-  
jar/com/thoughtworks/paranamer/CachingParanamer.java  
\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-  
jar/com/thoughtworks/paranamer/DefaultParanamer.java  
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jar/com/thoughtworks/paranamer/JavadocParanamer.java

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jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
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jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
*
/opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
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jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
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/opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java
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jar/io/netty/handler/codec/DatagramPacketEncoder.java
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java  
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* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
*
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jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

\*

/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/LzfEncoder.java

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jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java

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jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/LzfDecoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/FastLz.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/MessageAggregationException.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java

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/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java

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jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java

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jar/io/netty/handler/codec/compression/Bzip2Rand.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
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*/
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* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuffer} that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/
```

Found in path(s):

```
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
```

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```

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```
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
```

\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/compression/JZlibDecoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/ReplayingDecoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/PrematureChannelClosureException.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
 \*  
 /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/compression/JZlibEncoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/base64/Base64Encoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/Delimiters.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/MessageToMessageEncoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/xml/package-info.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/CodecException.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/string/package-info.java  
 \*  
 /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/compression/package-info.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/base64/package-info.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/bytes/package-info.java  
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 /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
 jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
 \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/EncoderException.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/ValueConverter.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/CharSequenceValueConverter.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/DefaultHeadersImpl.java

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\* <https://creativecommons.org/licenses/publicdomain>

\*/

/\*\*

\* Enumeration of supported Base64 dialects.

\* <p>

\* The internal lookup tables in this class has been derived from

\* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert  
Harder's Public Domain

\* Base64 Encoder/Decoder</a>.

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/base64/Base64Dialect.java



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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/DefaultHeaders.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/Headers.java

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\* A decoder that splits the received {@link ByteBuf}s dynamically by the  
\* value of the length field in the message. It is particularly useful when you  
\* decode a binary message which has an integer header field that represents the  
\* length of the message body or the whole message.

\*

<p>

\* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
\* that it can decode any message with a length field, which is often seen in  
\* proprietary client-server protocols. Here are some example that will give  
\* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
\* represents the length of "HELLO, WORLD". By default, the decoder assumes  
\* that the length field represents the number of the bytes that follows the  
\* length field. Therefore, it can be decoded with the simplistic parameter  
\* combination.

\* <pre>

\* <b>lengthFieldOffset</b> = <b>0</b>

\* <b>lengthFieldLength</b> = <b>2</b>

\* lengthAdjustment = 0

\* initialBytesToStrip = 0 (= do not strip header)

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

\* +-----+-----+      +-----+-----+

\* | Length | Actual Content

|----->| Length | Actual Content |

\* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |

\* +-----+-----+      +-----+-----+

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, strip header</h3>

\*

\* Because we can get the length of the content by calling  
\* { @link ByteBuf#readableBytes() }, you might want to strip the length  
\* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
\* specified <tt>2</tt>, that is same with the length of the length field, to  
\* strip the first two bytes.

\* <pre>

\* lengthFieldOffset = 0

\* lengthFieldLength = 2

\* lengthAdjustment = 0

\* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)

\* +-----+-----+      +-----+

\* | Length | Actual Content |----->| Actual Content |

\* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |

\* +-----+-----+      +-----+

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, do not strip header, the length field

\* represents the length of the whole message</h3>  
 \*  
 \* In most cases, the length field represents the length of the message body  
 \* only, as shown in the previous examples. However, in some protocols, the  
 \* length field represents the length of the whole message, including the  
 \* message header. In such a case, we specify a non-zero  
 \* <tt>lengthAdjustment</tt>. Because the length value in this example message  
 \* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>  
 \* as <tt>lengthAdjustment</tt> for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+
```

<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

\* The following message is a simple variation of the first example. An extra  
 \* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero  
 \* again because the decoder always takes the length of the prepended data into  
 \* account during frame length calculation.

```
* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
 | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+
```

<h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

\* This is an advanced example that shows the case where there is an extra  
 \* header between the length field and the message body. You have to specify a  
 \* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra

```

* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 +
LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account

```

```

* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

## 1.210 netty-transport 4.1.70.Final

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```

* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/AbstractEventLoop.java

```

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/PendingWriteQueue.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java

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\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultChannelPromise.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/local/package-info.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultFileRegion.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/package-info.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/oio/package-info.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/nio/package-info.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelPipeline.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelInitializer.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-

jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/EventLoopTaskQueueFactory.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelHandlerMask.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ExtendedClosedChannelException.java  
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jar/io/netty/channel/pool/package-info.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/SimpleChannelPool.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/ChannelHealthChecker.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/ChannelPoolHandler.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/ChannelPool.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/ChannelPoolMap.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-

jar/io/netty/channel/pool/FixedChannelPool.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java  
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\*/

/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its { @link ChannelPipeline }.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its subtypes:

\* <ul>

\* <li>{ @link

ChannelInboundHandler } to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

\* Alternatively, the following adapter classes are provided for your convenience:

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>

\* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>

\* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>

\* </ul>

\* </p>

\* <p>

\* For more information, please refer to the documentation of each subtype.

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }

\* object. A { @link ChannelHandler } is supposed to interact with the

\* { @link ChannelPipeline } it belongs to via a context object. Using the

\* context object, the { @link ChannelHandler } can pass events upstream or

\* downstream, modify the pipeline dynamically,

or store the information

\* (using { @link AttributeKey }s) which is specific to the handler.

\*

\* <h3>State management</h3>

\*

\* A { @link ChannelHandler } often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* <pre>

\* public interface Message {

\*     // your methods here

\* }

\*

\* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {

\*

\*     <b>private boolean loggedIn;</b>

\*

\*     { @code @Override }

\*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {

\*         if (message instanceof LoginMessage) {

\*             authenticate((LoginMessage) message);

\*             <b>loggedIn = true;</b>

```

* } else (message instanceof GetDataMessage) {
* if (loggedIn) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
*
* }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}<{ @link Channel}> {
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
*
* </pre>

```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use { @link AttributeKey}s which is provided by { @link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
* // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}<Message> {
* private final { @link AttributeKey}<{ @link Boolean}> auth =
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* { @code @Override}
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
* { @link Attribute}<{ @link Boolean}> attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {

```



```

* authenticate(LoginMessage o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* }
* ...
* }
* </pre>

```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}<&{ @link Channel}>> {
*
* private static final DataServerHandler SHARED = new DataServerHandler();
*
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>

```

\* <h4>The { @code @Sharable} annotation</h4>

\* <p>In the example above which used an { @link AttributeKey}, you might have noticed the { @code @Sharable} annotation.</p>

\* If a { @link ChannelHandler} is annotated with the { @code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline}s multiple times without a race condition.

\* <p>If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.</p>

\* <p>This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.</p>

\* <h3>Additional resources worth reading</h3>

```
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/
```

Found in path(s):

```
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelHandler.java
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```
*/
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```
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jar/io/netty/channel/socket/nio/NioChannelOption.java
```

```
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java

\*

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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\*

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/internal/ChannelUtils.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/FailedChannel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/PendingBytesTracker.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

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Found in path(s):

```
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
```

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* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/AddressedEnvelope.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/ChannelGroupException.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ConnectTimeoutException.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/ChannelMatchers.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelId.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/ChannelFactory.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-

```
jar/io/netty/channel/ChannelProgressiveFuture.java
*
/opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
*
/opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
```

## 1.211 netty-resolver 4.1.70.Final

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Found in path(s):

```
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/META-
INF/maven/io.netty/netty-resolver/pom.xml
```

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```
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/package-
info.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/NoopAddressResolver.java
*
 /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/AddressResolverGroup.java
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\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/HostsFileEntries.java  
\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/AddressResolver.java
*
/opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1257888705_1643019972.09/0/netty-resolver-4-1-70-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
```

## 1.212 netty-handler 4.1.70.Final

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/TCPPacket.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/PcapHeaders.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/package-info.java  
\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/EthernetPacket.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/IPPacket.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/UDPPacket.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/PcapWriteHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/pcap/PcapWriter.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/LoggingHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/package-info.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/LogLevel.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/TimeoutException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedStream.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/IdleState.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-

```
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/AsyncRunnable.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/GroupsConverter.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
```

```
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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*/
// Try the OpenJDK's proprietary implementation.
```

```
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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
```

jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/address/package-info.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
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jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ocsp/package-info.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/SniCompletionEvent.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java  
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java



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```
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/META-INF/native-
image/io.netty.handler.native-image.properties
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/META-
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/flow/FlowControlHandler.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ClientAuth.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

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jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java  
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRule.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
```

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jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java

```

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/flush/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/flow/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemValue.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

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- \* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/traffic/package-info.java
- \* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
- \*
- /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

## 1.213 jackson-annotations 2.10.1

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## 1.214 reflections 0.9.10

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## 1.215 metrics-httpclient 4.0.5

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## 1.216 protobuf-java-format 1.2

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## 1.217 opentracing-api 0.31.0

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```
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/Scope.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/References.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/Tracer.java
*
/opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/tag/AbstractTag.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/ScopeManager.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/propagation/TextMapInjectAdapter.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/tag/StringTag.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
jar/io/opentracing/propagation/TextMap.java
* /opt/cola/permits/1258804304_1643113379.94/0/opentracing-api-0-31-0-sources-
```

jar/io/opentracing/log/Fields.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/tag/IntOrStringTag.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/tag/Tags.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/tag/BooleanTag.java  
\*  
/opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/SpanContext.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/propagation/TextMapExtractAdapter.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-jar/io/opentracing/Span.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/tag/IntTag.java  
\* /opt/cola/permits/1258804304\_1643113379.94/0/opentracing-api-0-31-0-sources-  
jar/io/opentracing/propagation/Format.java  
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# 1.218 annotations 4.1.1.4

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\* /opt/cola/permits/1258811491\_1643111603.33/0/annotations-4-1-1-4-sources-jar/android/annotation/SuppressWarnings.java  
\* /opt/cola/permits/1258811491\_1643111603.33/0/annotations-4-1-1-4-sources-jar/android/annotation/TargetApi.java

# 1.219 jboss-logging 3.4.3.Final

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Found in path(s):

\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderV2.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterV2.java  
\*  
/opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/VoidType.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ArrayType.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/WildcardType.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ParameterizedType.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeVariable.java  
\*  
/opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterTypeTarget.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/GenericSignatureParser.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInternal.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeTarget.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-

```
jar/org/jboss/jandex/IndexReaderImpl.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/UnresolvedTypeVariable.java
*
/opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Utils.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/EmptyTypeTarget.java
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\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ModuleInfo.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfo.java  
\*  
/opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInternal.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfoGenerator.java  
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\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfo.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/DotName.java  
\*  
/opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Type.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInternal.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java  
\* /opt/cola/permits/1258847893\_1643112599.64/0/jandex-2-4-2-final-sources-

```

jar/org/jboss/jandex/AnnotationTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/NameTable.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/AnnotationValue.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexView.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/AnnotationInstance.java
*
/opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/CompositeIndex.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Main.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Result.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriter.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/JandexAntTask.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexReader.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexReaderV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassType.java
*
/opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PackedDataOutputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Index.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/MethodParameterInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexWriterV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PackedDataInputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PrimitiveType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/StrongInternPool.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Indexer.java

```

## 1.221 animal-sniffer-annotation 1.19

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\* /opt/cola/permits/1258876677\_1643115784.16/0/animal-sniffer-annotations-1-19-sources-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

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\* /opt/cola/permits/1258876677\_1643115784.16/0/animal-sniffer-annotations-1-19-sources-jar/org/codehaus/mojo/animal\_sniffer/IgnoreJRERequirement.java

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## 1.225 error\_prone\_annotations 2.3.3

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```

Found in path(s):

```
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
```

jar/com/google/errorprone/annotations/MustBeClosed.java

\*

/opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-

jar/com/google/errorprone/annotations/RestrictedApi.java

\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-

jar/com/google/errorprone/annotations/FormatString.java

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jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-

jar/com/google/errorprone/annotations/DoNotCall.java

\* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-

jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

\*

/opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-

jar/com/google/errorprone/annotations/CheckReturnValue.java

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  - \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
  - \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Immutable.java
- \*
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Var.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/ForOverride.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- \* /opt/cola/permits/1264660152\_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
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# 1.226 picocontainer 2.15

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- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ProviderAdapter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentLifecycle.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/security/CustomPermissionsURLClassLoader.java
- \*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentMonitorStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Stored.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/FactoryInjector.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/references/SimpleReference.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Guarded.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/Provider.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/CompositeInjector.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Injector.java
- \*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/InjectInto.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/references/ThreadLocalMapObjectReference.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/CompositeInjection.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/injectors/Injector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/MultiInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/ObjectReference.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Decorated.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/Reinjection.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/references/ThreadLocalReference.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/Reinjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/MultiInjection.java  
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jar/org/picocontainer/classname/ClassPathElement.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/classname/ClassName.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/classname/ClassLoadingPicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/parameters/DefaultConstructorParameter.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/classname/DefaultClassLoadingPicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
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- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/MethodCallingVisitor.java
- \*
- /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/AbstractMonitoringLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/TraversalCheckingVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/converters/Converter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/ReflectionLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentAdapter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/JavaEE5LifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Converters.java
- \*
- /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/LifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/VerifyingVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/DefaultLifecycleState.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/CompositeLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/ReflectionLifecycleException.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/AbstractPicoVisitor.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AnnotatedFieldInjection.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/NamedFieldInjector.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Automated.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Locked.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/NameBinding.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/AdaptingBehavior.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/PropertyApplicator.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AnnotatedFieldInjector.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/LifecycleComponentMonitor.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoContainer.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Automating.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentFactory.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/adapters/AbstractAdapter.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/Injectors.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Characteristics.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/PropertyApplying.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/annotations/Inject.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/TransientPicoContainer.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/DefaultPicoContainer.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/NullLifecycleStrategy.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/parameters/BasicComponentParameter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Synchronizing.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/NamedMethodInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/PicoVerificationException.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/PicoException.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/annotations/Cache.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/containers/CommandLinePicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/TypedFieldInjection.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/adapters/InstanceAdapter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/TypedFieldInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/NamedFieldInjection.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/parameters/CollectionComponentParameter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Locking.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/annotations/Nullable.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Behaviors.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/AbstractInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/BehaviorFactory.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/PicoBuilder.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/InjectionFactory.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/AnnotatedMethodInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/ImplementationHiding.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/HiddenImplementation.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/parameters/ComponentParameter.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/containers/ImmutablePicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Synchronized.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/SetterInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/PicoClassNotFoundException.java

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 * Original code by Paul Hammant & Obie Fernandez & Aslak Hellesø
 */
```

Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/monitors/NullComponentMonitor.java

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Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/AbstractBehavior.java

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 *
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 */
```

\*\*\*\*\*

Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Decorating.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/FieldDecorating.java

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\* Original code by Paul Hammaant \*

\*\*\*\*\*

Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/ComponentMonitorHelper.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/WriterComponentMonitor.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/ConsoleComponentMonitor.java

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Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/AbstractDelegatingMutablePicoContainer.java

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* Original Code By: Centerline Computers, Inc.
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```

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```
*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/PrimitiveMemberChecker.java
```

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*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/BindKey.java
```

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```

Found in path(s):

```
*/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/ComponentMonitor.java
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*****/
```

Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/CompositePicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/MutablePicoContainer.java

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 * *
 * Original code by Mauro Talevi *
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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/AbstractComponentMonitor.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/PropertiesPicoContainer.java

```
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MethodInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Intercepting.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoLifecycleException.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ForgetfulConstructorInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Intercepted.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/SystemPropertiesPicoContainer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/CommandLineArgumentsPicoContainer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ParameterNameBinding.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/parameters/AbstractParameter.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/SingleMemberInjector.java
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* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/composers/RegexComposer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/monitors/ComposingMonitor.java
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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/ConstantParameter.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Parameter.java

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Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Behavior.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/EmptyPicoContainer.java

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Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Disposable.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Startable.java

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Found in path(s):

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* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/ThreadCached.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Guarding.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/SetterInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MethodInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AnnotatedMethodInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AdaptingInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ConstructorInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/ThreadCaching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ConstructorInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Storing.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Caching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoCompositionException.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/OptInCaching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Cached.java
```

## 1.227 vault-java-driver 4.1.0

### 1.227.1 Available under license :

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```
/**
 * <p>Intended for internal use by other classes within the Vault driver library.</p>
 *
 * <p>JSON parsing functionality. The classes in this package are adapted from Ralf Sternberg's excellent
 * "minimal-json" library, available under the MIT License.
 * The package names have all been changed, to prevent any conflicts should you happen to be using a different
 * version of this library elsewhere in your project dependencies.</p>
 */
```

Found in path(s):

\* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-jar/com/bettercloud/vault/json/package-info.java

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\* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-jar/com/bettercloud/vault/json/Json.java

\* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-jar/com/bettercloud/vault/json/PrettyPrint.java

\* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-jar/com/bettercloud/vault/json/WritingBuffer.java

\* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-jar/com/bettercloud/vault/json/WriterConfig.java

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\* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonParser.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonWriter.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonLiteral.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonArray.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonObject.java  
 \*  
 /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonString.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonValue.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/ParseException.java  
 \* /opt/cola/permits/1268276294\_1644386808.09/0/vault-java-driver-4-1-0-sources-  
 jar/com/bettercloud/vault/json/JsonNumber.java

# 1.228 open-ldap 2.4.44-25.el7\_9

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## 1.230 proto-google-common-protos 2.5.1

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*/
/**
*
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*
* <code>EARLY_ACCESS = 1;</code>
*/
```

Found in path(s):

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/LaunchStage.java

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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/UsageRuleOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/Reason.java

\*

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/AuthRequirementOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/SourceInfoProto.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ControlOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/ErrorInfoOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/DistributionOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/audit/AuditLogOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/BackendRuleOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/VisibilityOrBuilder.java

\*

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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/HttpOrBuilder.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/MethodInfo.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/MetricRule.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/longrunning/ListOperationsResponseOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/ErrorDetailsProto.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/OperationResponseMapping.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ProjectProperties.java  
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/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/rpc/RetryInfoOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/type/Decimal.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/type/QuaternionProto.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/VisibilityRule.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/SystemParameterOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/FractionOrBuilder.java

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/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/HttpBodyOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/LocalizedMessageOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/MonitoredResourceOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/QuaternionOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ConfigChange.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/TimeZone.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/LogDescriptor.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/LogDescriptorOrBuilder.java

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/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/audit/AuditLog.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/QuotaLimit.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/DebugInfoOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/UsageProto.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/ColorProto.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ServiceOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/ResourceInfoOrBuilder.java

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/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/DayOfWeek.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/VisibilityRuleOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/Logging.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/context/AttributeContextProto.java

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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/OAuthRequirementsOrBuilder.java  
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jar/com/google/longrunning/Operation.java  
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jar/com/google/api/ProjectPropertiesOrBuilder.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/MonitoredResourceMetadataOrBuilder.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ConsumerProto.java

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## 1.231 slf4j 1.7.36

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* /opt/cola/permits/1281455938_1646319090.87/0/jul-to-slf4j-1-7-36-sources-
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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/JsonWebKeySet.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/HmacKey.java

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/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/mac/MacUtil.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwx/KeyValidationSupport.java

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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/IssValidator.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwa/AlgorithmAvailability.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/JwtClaims.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/EcKeyUtil.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/JsonWebKey.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwx/Headers.java  
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 /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/JsonWebEncryption.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/NumericDateValidator.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/KeyManagementAlgorithm.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwa/AlgorithmInfo.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/JsonHelp.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwa/AlgorithmFactory.java  
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 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/EcJwkGenerator.java  
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 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/InitializationVectorHelp.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/CipherStrengthSupport.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/IntegrityException.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jws/BaseSignatureAlgorithm.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/SubValidator.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/RsaJsonWebKey.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/AudValidator.java  
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 /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/EllipticCurves.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/UnresolvableKeyException.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/PbkdfKey.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/JwsCustomizer.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/zip/DeflateRFC1951CompressionAlgorithm.java  
 \* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/GeneralJwtException.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java

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/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/RsaKeyManagementAlgorithm.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jws/JsonWebSignature.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/JwtContext.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/RsaKeyUtil.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jws/UnsecuredNoneAlgorithm.java

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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/DefaultByteGenerator.java

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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/ContentEncryptionParts.java

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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/zip/CompressionAlgorithm.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java  
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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/ByteGenerator.java  
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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/EllipticCurveJsonWebKey.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/JoseException.java  
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\*  
/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/VerificationJwkSelector.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidator.java

\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/X509Util.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/ContentEncryptionKeys.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwx/CompactSerialization.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/ReservedClaimNames.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/CipherUtil.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/Pbes2HmacShaWithAesKeyWrapAlgorithm.java  
\*  
/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/http/Get.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jca/ProviderContext.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwx/JsonWebStructure.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidatorAdapter.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jws/HmacUsingShaAlgorithm.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/lang/ByteUtil.java  
\*  
/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/IntDate.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwx/HeaderParameterNames.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/base64url/Base64Url.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/base64url/SimplePEMEncoder.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwt/consumer/Validator.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/keys/resolvers/X509VerificationKeyResolver.java  
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jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java  
\*  
/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java  
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\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-  
jar/org/jose4j/lang/InvalidKeyException.java  
\* /opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/SimpleJwkFilter.java  
\*  
/opt/cola/permits/1285265896\_1646894814.64/0/jose4j-0-7-9-sources-  
jar/org/jose4j/jwk/DecryptionJwkSelector.java  
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* /opt/cola/permits/1285265896_1646894814.64/0/jose4j-0-7-9-sources-
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java
* /opt/cola/permits/1285265896_1646894814.64/0/jose4j-0-7-9-sources-
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java
*
/opt/cola/permits/1285265896_1646894814.64/0/jose4j-0-7-9-sources-
jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java
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* /opt/cola/permits/1285265896_1646894814.64/0/jose4j-0-7-9-sources-jar/org/jose4j/jwk/HttpsJwks.java
```

## 1.235 error\_prone\_annotations 2.10.0

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* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
*
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/NoAllocation.java
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jar/com/google/errorprone/annotations/RestrictedApi.java
```

\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/MustBeClosed.java  
\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CompatibleWith.java  
\*  
/opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/FormatMethod.java  
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\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java

\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

\*

/\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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- \* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- \*
- /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Var.java
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- \* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/ForOverride.java

## 1.236 jcl-over-slf4j 1.7.36

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## 1.237 lettuce-core 6.1.6.RELEASE

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# 1.238 logback-access 1.2.11

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## 1.240 zookeeper-jute 3.8.0

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```
options {
 STATIC=false;
}
```

```
PARSER_BEGIN(Rcc)
/**
```

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```
package org.apache.jute.compiler.generated;
```

```
import org.apache.jute.compiler.*;
import
 java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;

@SuppressWarnings("unused")
public class Rcc {
 private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
 private static String curDir = System.getProperty("user.dir");
 private static String curFileName;
 private static String curModuleName;

 public static void main(String args[]) {
 String language = "java";
 ArrayList<String> recFiles = new ArrayList<String>();
 JFile curFile=null;

 for (int i=0; i<args.length; i++) {
 if ("-l".equalsIgnoreCase(args[i]) ||
 "--language".equalsIgnoreCase(args[i])) {
 language = args[i+1].toLowerCase();
 i++;
 } else {
 recFiles.add(args[i]);
 }
 }
 }
}
```

```

 }
 if (!"c++".equals(language) && !"java".equals(language)
&& !"c".equals(language)) {
 System.out.println("Cannot recognize language:" + language);
 System.exit(1);
 }
 if (recFiles.size() == 0) {
 System.out.println("No record files specified. Exiting.");
 System.exit(1);
 }
 for (int i=0; i<recFiles.size(); i++) {
 curFileName = recFiles.get(i);
 File file = new File(curFileName);
 try {
 curFile = parseFile(file);
 } catch (FileNotFoundException e) {
 System.out.println("File " + recFiles.get(i) + " Not found.");
 System.exit(1);
 } catch (ParseException e) {
 System.out.println(e.toString());
 System.exit(1);
 }
 System.out.println(recFiles.get(i) + " Parsed Successfully");
 try {
 curFile.genCode(language, new File("."));
 } catch (IOException e) {
 System.out.println(e.toString());
 System.exit(1);
 }
 }
}

```

```

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
 curDir = file.getParent();
 curFileName = file.getName();
 FileReader reader = new FileReader(file);
 try {
 Rcc parser = new Rcc(reader);
 recTab = new Hashtable<String, JRecord>();
 return parser.Input();
 } finally {
 try {
 reader.close();
 } catch (IOException e) {
 }
 }
}
}

```

PARSER\_END(Rcc)

SKIP :

```
{
 "
 | "\t"
 | "\n"
 | "\r"
}
```

SPECIAL\_TOKEN :

```
{
 "//" : WithinOneLineComment
}
```

<WithinOneLineComment> SPECIAL\_TOKEN :

```
{
 <("\n" | "\r" | "\r\n") > : DEFAULT
}
```

<WithinOneLineComment> MORE :

```
{
 <~[]>
}
```

SPECIAL\_TOKEN :

```
{
 "/*" : WithinMultiLineComment
}
```

<WithinMultiLineComment> SPECIAL\_TOKEN :

```
{
 "*/" : DEFAULT
}
```

<WithinMultiLineComment> MORE :

```
{
 <~[]>
}
```

TOKEN :

```
{
 <MODULE_TKN:
 "module">
 | <RECORD_TKN: "class">
 | <INCLUDE_TKN: "include">
 | <BYTE_TKN: "byte">
```

```

| <BOOLEAN_TKN: "boolean">
| <INT_TKN: "int">
| <LONG_TKN: "long">
| <FLOAT_TKN: "float">
| <DOUBLE_TKN: "double">
| <USTRING_TKN: "ustring">
| <BUFFER_TKN: "buffer">
| <VECTOR_TKN: "vector">
| <MAP_TKN: "map">
| <LBRACE_TKN: "{">
| <RBRACE_TKN: "}">
| <LT_TKN: "<">
| <GT_TKN: ">">
| <SEMICOLON_TKN: ";">
| <COMMA_TKN: ",">
| <DOT_TKN: ".">
| <CSTRING_TKN: "\"" (~["\""])+ "\"">
| <IDENT_TKN: ["A"- "Z", "a"- "z"] (["a"- "z", "A"- "Z", "0"- "9", "_"])*>
}

```

JFile Input() :

```

{
 ArrayList<JFile> ilist = new ArrayList<JFile>();
 ArrayList<JRecord> rlist = new ArrayList<JRecord>();
 JFile i;
 ArrayList <JRecord>l;
}
{
 (
 i = Include()
 { ilist.add(i); }
 | l = Module()
 { rlist.addAll(l); }
)+
 <EOF>
 { return new JFile(curFileName, ilist, rlist); }
}

```

JFile Include() :

```

{
 String fname;
 Token t;
}
{
 <INCLUDE_TKN>
 t = <CSTRING_TKN>
 {
 JFile ret = null;

```

```

fname = t.image.replaceAll("^\\", "").replaceAll("\\$", "");
File file = new File(curDir, fname);
String tmpDir = curDir;
String tmpFile = curFileName;
curDir = file.getParent();
curFileName = file.getName();
try {
 FileReader reader = new FileReader(file);
 Rcc parser = new Rcc(reader);
 try {
 ret = parser.Input();
 System.out.println(fname + " Parsed Successfully");
 } catch (ParseException e) {
 System.out.println(e.toString());
 System.exit(1);
 }
 try {
 reader.close();
 } catch (IOException e) {
 }
} catch (FileNotFoundException e) {
 System.out.println("File " + fname +
 " Not found.");
 System.exit(1);
}
curDir = tmpDir;
curFileName =
tmpFile;
return ret;
}
}

```

ArrayList<JRecord> Module() :

```

{
 String mName;
 ArrayList<JRecord> rlist;
}
{
 <MODULE_TKN>
 mName = ModuleName()
 { curModuleName = mName; }
 <LBRACE_TKN>
 rlist = RecordList()
 <RBRACE_TKN>
 { return rlist; }
}

```

String ModuleName() :



```

{
 String name = "";
 Token t;
}
{
 t = <IDENT_TKN>
 { name += t.image; }
 (
 <DOT_TKN>
 t = <IDENT_TKN>
 { name += "." + t.image; }
)*
 { return name; }
}

```

```

ArrayList<JRecord> RecordList() :
{
 ArrayList<JRecord> rlist = new ArrayList<JRecord>();
 JRecord r;
}
{
 (
 r = Record()
 { rlist.add(r); }
)+
 { return rlist; }
}

```

```

JRecord Record() :
{
 String rname;
 ArrayList<JField> flist = new ArrayList<JField>();
 Token t;
 JField f;
}
{
 <RECORD_TKN>
 t = <IDENT_TKN>
 { rname = t.image; }
 <LBRACE_TKN>
 (
 f = Field()
 { flist.add(f); }
 <SEMICOLON_TKN>
)+
 <RBRACE_TKN>
 {
 String fqname = curModuleName + "." + rname;

```

```

 JRecord r = new JRecord(fqn, flist);
 recTab.put(fqn, r);
 return r;
}
}

```

```

JField Field() :
{
 JType jt;
 Token t;
}
{
 jt = Type()
 t = <IDENT_TKN>
 { return new JField(jt, t.image); }
}

```

```

JType Type() :
{
 JType jt;
 Token t;
 String rname;
}
{
 jt = Map()
 { return jt; }
| jt = Vector()
 { return jt; }
| <BYTE_TKN>
 { return new JByte(); }
| <BOOLEAN_TKN>
 { return new JBoolean(); }
| <INT_TKN>
 { return new JInt(); }
| <LONG_TKN>
 { return new JLong(); }
| <FLOAT_TKN>
 { return new JFloat(); }
| <DOUBLE_TKN>
 { return new JDouble(); }
| <USTRING_TKN>
 { return new JString(); }
| <BUFFER_TKN>
 { return new JBuffer(); }
| rname = ModuleName()
 {
 if (rname.indexOf('.', 0) < 0) {
 rname = curModuleName + "." + rname;

```

```

 }
 JRecord r = recTab.get(rname);
 if (r == null) {
 System.out.println("Type
" + rname + " not known. Exiting.");
 System.exit(1);
 }
 return r;
}
}

```

JMap Map() :

```

{
 JType jt1;
 JType jt2;
}
{
 <MAP_TKN>
 <LT_TKN>
 jt1 = Type()
 <COMMA_TKN>
 jt2 = Type()
 <GT_TKN>
 { return new JMap(jt1, jt2); }
}

```

JVector Vector() :

```

{
 JType jt;
}
{
 <VECTOR_TKN>
 <LT_TKN>
 jt = Type()
 <GT_TKN>
 { return new JVector(jt); }
}

```

Found in path(s):

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/rcc.jj

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Found in path(s):

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/package.html  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/package.html

\*

/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/package.html

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Found in path(s):

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/CreateTxn.java

\*

/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetChildren2Response.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/DeleteRequest.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/data/Id.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/MultiTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/LearnerInfo.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/Create2Response.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetChildrenResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/AuthPacket.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/server/persistence/FileHeader.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/CreateRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/CreateTTLRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetACLRequest.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-

```

jar/org/apache/zookeeper/proto/GetACLRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/txn/SetDataTxn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/txn/Txn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/data/ClientInfo.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/txn/TxnDigest.java
*
/opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/GetChildrenRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/MultiHeader.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/data/StatPersisted.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/SetWatches2.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
*
/opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/CheckVersionRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/data/Stat.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/zookeeper/proto/GetDataResponse.java
*

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/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SyncResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/TxnHeader.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/WhoAmIResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ErrorResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ConnectResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/CreateTxnV0.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/CreateTTLTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/CreateResponse.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetWatches.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetDataRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/WatcherEvent.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/RequestHeader.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/data/ACL.java

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\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JBuffer.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JFloat.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JVector.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JBoolean.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/Utils.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JFile.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JString.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/BinaryOutputArchive.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/ToStringOutputArchive.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JCompType.java  
\*  
/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JDouble.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/RecordWriter.java  
\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-  
jar/org/apache/jute/compiler/JField.java



```
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/InputArchive.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/Index.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JInt.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/Record.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/CGenerator.java
*
/opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/OutputArchive.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JByte.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/RecordReader.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JMap.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JLong.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JRecord.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/CSharpGenerator.java
*
/opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/compiler/JType.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-
jar/org/apache/jute/BinaryInputArchive.java
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\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml

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\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/ParseException.java

\*

/opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/RccConstants.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/RccTokenManager.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/Rcc.java

\* /opt/cola/permits/1292071522\_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/jute/compiler/generated/Token.java

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jar/org/apache/zookeeper/cli/VersionCommand.java
*
 /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/GetAclCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/SyncCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/LsCommand.java
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jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java  
\*

/opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-  
jar/org/apache/zookeeper/server/ContainerManager.java

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jar/org/apache/zookeeper/server/EphemeralType.java

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jar/org/apache/zookeeper/server/controller/CommandListener.java  
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jar/org/apache/zookeeper/server/util/MessageTracker.java

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jar/org/apache/zookeeper/server/controller/ControllerService.java

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jar/org/apache/zookeeper/server/watch/WatcherModeManager.java

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jar/org/apache/zookeeper/server/controller/ZooKeeperServerController.java  
\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-  
jar/org/apache/zookeeper/server/util/CircularBuffer.java  
\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-  
jar/org/apache/zookeeper/server/controller/ControllableConnection.java  
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jar/org/apache/zookeeper/common/PathTrie.java  
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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/watch/PathParentIterator.java  
\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/controller/ControllableConnectionFactory.java  
\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/embedded/ExitHandler.java  
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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/Transaction.java  
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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/MultiResponse.java  
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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/flexible/QuorumVerifier.java

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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/command/NopCommand.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/QuorumPeer.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/client/HostProvider.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/WorkerService.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/jmx/ZKMBeanInfo.java

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/opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/client/ZooKeeperSaslClient.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/cli/SetCommand.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/flexible/QuorumOracleMaj.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/client/ConnectStringParser.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/ZooDefs.java

\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/ZooKeeperServerListenerImpl.java

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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/AuthenticationHelper.java

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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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jar/org/apache/zookeeper/server/command/WatchCommand.java  
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/Login.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/metrics/MetricsContext.java  
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\* /opt/cola/permits/1292071513\_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/Follower.java  
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/persistence/FileSnap.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/util/ServiceUtils.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/common/PEMFileLoader.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/Watcher.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/KeeperException.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/Environment.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/ResponseCache.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/auth/KeyAuthenticationProvider.java
*
/opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/metrics/CounterSet.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/CreateMode.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/Quotas.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/auth/DigestLoginModule.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/metric/AvgMinMaxPercentileCounterSet.java

```



```
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/quorum/LeaderSessionTracker.java
*
/opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/ZooKeeperServer.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/util/BitMap.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/command/FourLetterCommands.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/audit/AuditLogger.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/CliWrapperException.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/WatchedEvent.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/cli/SetAclCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/quorum/Election.java
```

## 1.242 error\_prone\_annotations 2.11.0

### 1.242.1 Available under license :

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

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Found in path(s):

```
* /opt/cola/permits/1295545178_1648483747.7/0/error-prone-annotations-2-11-0-1-jar/META-
INF/maven/com.google.errorprone/error_prone_annotations/pom.xml
```

# 1.243 zlib 1.2.12

## 1.243.1 Available under license :

\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 11th, 2022

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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## 1.244 cyrus-sasl 2.1.26-24.el7\_9

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```
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
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/\* CMU libsasl

\* Tim Martin

\* Rob Earhart

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\*/

/\*

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# 1.245 libqrencode 3.4.1-3.el7

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## 1.246 guava 31.1-jre

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Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
*
/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
```

jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/hash/HashingInputStream.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
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jar/com/google/common/base/SmallCharMatcher.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/XmlEscapers.java  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Cut.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/SignedBytes.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/HostSpecifier.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/Platform.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/CacheBuilder.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingFuture.java  
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 /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/InternetDomainName.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
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 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeResolver.java  
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 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableTable.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/UrlEscapers.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Platform.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ArrayBasedEscaperMap.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractService.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DenseImmutableTable.java  
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 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/html/HtmlEscapers.java  
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jar/com/google/common/base/FinalizablePhantomReference.java
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jar/com/google/common/base/Throwables.java
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jar/com/google/common/io/CountingOutputStream.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
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*
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/package-info.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/CharStreams.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Predicates.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/SortedMultisetBridge.java  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingNavigableMap.java  
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jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/TreeRangeMap.java

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jar/com/google/common/hash/MacHashFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/hash/LittleEndianByteArray.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/CombinedFuture.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/ReaderInputStream.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AggregateFutureState.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
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jar/com/google/common/util/concurrent/Platform.java

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jar/com/google/common/io/MoreFiles.java

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jar/com/google/common/collect/MultimapBuilder.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableMapEntry.java

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\* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular

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jar/com/google/common/primitives/FloatsMethodsForWeb.java

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jar/com/google/common/collect/FilteredKeyMultimap.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/io/BaseEncoding.java

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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/collect/ImmutableRangeMap.java

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jar/com/google/common/math/Stats.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/math/PairedStats.java

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jar/com/google/common/math/StatsAccumulator.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/package-

info.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/Closer.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/package-info.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
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 /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/FileWriteMode.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java  
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 /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/package-info.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/html/package-info.java  
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 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java  
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 /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java  
 \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/math/LinearTransformation.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/CharSink.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/io/ByteSource.java  
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jar/com/google/common/io/ByteSink.java  
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jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

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jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableRangeSet.java  
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/\*\*  
\* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/Striped64.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MutableClassToInstanceMap.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimap.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java

\*

/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ConcurrentHashMultiset.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Iterables.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeMultiset.java

\*

/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ExplicitOrdering.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-



jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/LinkedListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingQueue.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/HashMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/Multiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/BiMap.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSortedMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ReverseOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/TreeMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/SortedSetMultimap.java  
\*

/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Sets.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullsLastOrdering.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingList.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EnumHashBiMap.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractSetMultimap.java

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/CompoundOrdering.java
*
```

```
/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingCollection.java
```

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```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMultiset.java
```

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMultisets.java
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```

```
*/
```

```
/**
```

```
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ObjectArrays.java
```

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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
* hereby
disclaims copyright to this source code.
*/
```

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```
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jar/com/google/common/collect/Hashing.java
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```
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/Traverser.java
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ClosingFuture.java
*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/AbstractBaseGraph.java
*
/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/graph/BaseGraph.java
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*/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/Streams.java
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* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMap.java
*
/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/BaseImmutableMultimap.java
```

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 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
/**
 * Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ShortsMethodsForWeb.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/Reflection.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/package-info.java

\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedLists.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/package-info.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/annotations/Beta.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ContiguousSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Ascii.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Equivalence.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Strings.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java



\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

\*

/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java

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\*/

/\*\*

\* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular  
\* version.  
\*/

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/primitives/DoublesMethodsForWeb.java

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\*

\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap`

class.

\*/

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Striped.java

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Found in path(s):

\*/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManagerBridge.java  
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/\*\*

\* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}

\* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

\* version.

\*

\* @throws UnsupportedOperationException always

\* @deprecated <b>Pass a key of type {@code Comparable}

to use {@link

\* [ImmutableSortedMap#of\(Comparable, Object\)](#).</b>

\*/

Found in path(s):

\*/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java  
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Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/hash/package-info.java

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\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*

\* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler  
wouldn't recognize

\* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/util/concurrent/Partially.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/Network.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ImmutableGraph.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/Graph.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/Graphs.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TopKSelector.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/JdkBackedImmutableSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java  
\*

/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ComparisonChain.java  
\*

/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableClassToInstanceMap.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

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jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/TableCollectors.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableEnumSet.java
*
/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ArrayTable.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java
- \*
- /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Serialization.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/HashBasedTable.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMap.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapKeySet.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
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- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Tables.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
- \* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/NullnessCasts.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/NullnessCasts.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/Crc3cHashFunction.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularContiguousSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-

jar/com/google/common/cache/LoadingCache.java  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/graph/IncidentEdgeSet.java

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/Converter.java

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/\*\*

\* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular

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\*/

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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/primitives/IntsMethodsForWeb.java

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jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/eventbus/Subscriber.java

\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-  
jar/com/google/common/base/MoreObjects.java

\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/Quantiles.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/GeneralRange.java  
\*  
/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java  
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jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/GwtTransient.java
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jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/CollectSpliterators.java
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jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/io/Java8Compatibility.java
*
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/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/base/Java8Compatibility.java
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jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/RowSortedTable.java
*
/opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSetMultimap.java
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jar/com/google/common/html/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1301953781_1649307346.56/0/guava-31-1-jre-sources-1-
jar/com/google/common/net/ParametricNullness.java
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/opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/math/ParametricNullness.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/xml/ParametricNullness.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/hash/ParametricNullness.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/cache/ParametricNullness.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/eventbus/ParametricNullness.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java  
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\* /opt/cola/permits/1301953781\_1649307346.56/0/guava-31-1-jre-sources-1-jar/com/google/common/base/CommonMatcher.java  
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jar/com/google/common/io/AppendableWriter.java  
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jar/com/google/common/util/concurrent/AggregateFuture.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/Dispatcher.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/MoreObjects.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/Subscriber.java  
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jar/com/google/common/collect/RegularImmutableMap.java  
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jar/com/google/common/collect/ImmutableMapValues.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Serialization.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/RegularImmutableBiMap.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CollectPreconditions.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Java8Compatibility.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/ToDoubleRounder.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/BigDecimalMath.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/CacheStats.java  
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jar/com/google/common/math/MathPreconditions.java  
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jar/com/google/common/base/Optional.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Crc32cHashFunction.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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\*/  
/\*\*  
\* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular  
\* version.  
\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ShortsMethodsForWeb.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedMapDifference.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RowSortedTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableCollection.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/IncidentEdgeSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/CompactHashing.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Runnables.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/TypeVisitor.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/HashingInputStream.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/CharSequenceReader.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Utf8.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/AbstractTable.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/VerifyException.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Verify.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/FilteredMultimapValues.java

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 */
```

```
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ObjectArrays.java
```

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jar/com/google/common/collect/GwtTransient.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Strings.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Atomics.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Monitor.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Ascii.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/annotations/package-info.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ListeningExecutorService.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ContiguousSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/annotations/Beta.java

```
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/net/package-info.java
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*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/
```

```
Found in path(s):
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MapRetrievalCache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ForwardingNetwork.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/UndirectedGraphConnections.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Comparators.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/EdgesConnecting.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/NetworkBuilder.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/StandardMutableValueGraph.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/StandardNetwork.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MapIteratorCache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/StandardMutableGraph.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/NetworkConnections.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/GraphBuilder.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/graph/StandardValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ImmutableValueGraph.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/GraphConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/MultiEdgesConnecting.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/MutableValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/UndirectedNetworkConnections.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractGraphBuilder.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/StandardMutableNetwork.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ElementOrder.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractGraph.java  
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jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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jar/com/google/common/collect/SortedMultisets.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/SortedMultiset.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeTraverser.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactHashMap.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AggregateFutureState.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/MacHashFunction.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ReaderInputStream.java  
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jar/com/google/common/util/concurrent/AtomicDoubleArray.java  
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jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Objects.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableWeakReference.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/DeadEvent.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Interners.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharStreams.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Supplier.java



\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Primitives.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CountingOutputStream.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Preconditions.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/Network.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MutableNetwork.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ImmutableGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ImmutableNetwork.java

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\*  
\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap`  
class.  
\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Striped.java

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\*/

/\*\*

\* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}  
\* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy  
\* version.

\*

\* @throws UnsupportedOperationException always

\* @deprecated <b>Pass a key of type {@code Comparable}

to use {@link

\* `ImmutableSortedMap#of(Comparable, Object)`.</b>

\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Platform.java

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Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/html/package-info.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/BaseEncoding.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/ByteSink.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/StandardSystemProperty.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/CartesianList.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ServiceManager.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractByteHasher.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/Closer.java  
 \*  
 /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/PairedStats.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/SipHashFunction.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/LongAddable.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/package-info.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/ClassPath.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSink.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/package-info.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java  
 \*  
 /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeCapture.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/package-info.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/FileWriteMode.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/Invokable.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LongAddable.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSource.java  
 \*  
 /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

```
jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/hash/LongAddables.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/reflect/AbstractInvocationHandler.java
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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ObjectCountLinkedHashMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractBaseGraph.java
*
```

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/Traverser.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/BaseGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ObjectCountHashMap.java  
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 */
/*
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 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Shorts.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Longs.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/MultiReader.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Chars.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/PercentEscaper.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Joiner.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Booleans.java  
\*

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FluentIterable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/FileBackedOutputStream.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ArrayTable.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableTable.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ComputationException.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java

```
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingTable.java
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express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/Partially.java
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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Multiset.java
*
 /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingQueue.java
*
 /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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jar/com/google/common/collect/ImmutableList.java  
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jar/com/google/common/collect/HashMultiset.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Iterables.java  
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jar/com/google/common/hash/package-info.java  
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jar/com/google/common/collect/Hashing.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/PatternCompiler.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/CommonPattern.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/JdkPattern.java  
\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/CommonMatcher.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/MapMakerInternalMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/HostSpecifier.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeResolver.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Platform.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/GwtIncompatible.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ReferenceEntry.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/UnsignedBytes.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingFuture.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/SignedBytes.java

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Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/CharEscaper.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/PatternFilenameFilter.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

```
jar/com/google/common/util/concurrent/CollectionFuture.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/AggregateFuture.java
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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/NullnessCasts.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
```

jar/com/google/common/base/NullnessCasts.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/NullnessCasts.java

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/\*\*

\* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/primitives/DoublesMethodsForWeb.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/base/ParametricNullness.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/ParametricNullness.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ParametricNullness.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ParametricNullness.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

```
jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ParametricNullness.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
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/**
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```

```
Found in path(s):
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedIterables.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Count.java
- \*
- /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RangeSet.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/GeneralRange.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedIterable.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractRangeSet.java

## 1.248 kotlin 1.6.21-release-334

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package tasks

```
import groovy.util.Node
import groovy.xml.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.file.RegularFileProperty
import org.gradle.api.provider.Property
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.util.*

abstract class WriteCopyrightToFile : DefaultTask() {
 @InputFile
 val path = project.file("${project.rootDir}/.idea/copyright/apache.xml")
```

```

@get:OutputFile
abstract val outputFile: RegularFileProperty

@get:Input
val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

@TaskAction
fun write() {
 val file = outputFile.asFile.get()
 file.writeText(if
(commented.get()) readCopyrightCommented() else readCopyright())
}

private fun readCopyright(): String {
 assert(path.exists()) {
 "File $path with copyright not found"
 }

 val xmlParser = XmlParser()
 val node = xmlParser.parse(path)
 assert(node.attribute("name") == "CopyrightManager") {
 "Format changed occasionally?"
 }

 val copyrightBlock = node.children().filterIsInstance<Node>().single()
 val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
 return noticeNode.attribute("value").toString().replace("$today.year",
GregorianCalendar()[Calendar.YEAR].toString())
}

private fun readCopyrightCommented(): String {
 return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
}
}

```

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<https://github.com/square/okhttp/>

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

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ASM: a very small and fast Java bytecode manipulation framework

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file\_io/unix/mktemp.c, strings/apr\_strings.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
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  - License: BSD ([license/third\_party/asm\_license.txt][asm])
  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/temporaryVals/FastStoreLoadAnalyzer.kt
  - License: BSD ([license/third\_party/asm\_license.txt][asm])
  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: core/reflection.jvm/src/kotlin.reflect/jvm/internal/pcollections
  - License: MIT ([license/third\_party/pcollections\_LICENSE.txt][pcollections])
  - Origin: Derived from PCollections, A Persistent Java Collections Library (<https://pcollections.org/>)
- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
  - License: BSD ([license/third\_party/asm\_license.txt][asm])
  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/OptimizationBasicInterpreter.java
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- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
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- Path: js/js.parser/src/com/google
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  - Origin: Originally part of GWT, (C) 2007-08  
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  - License: MIT ([license/third\_party/qunit\_license.txt][qunit])

- Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,
  
- Path: libraries/stdlib/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
  - Origin: Derived from GWT, (C) 2007-08 Google Inc.
  
- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
  - License: Apache 2 ([license/third\_party/guava\_license.txt][guava])
  - Origin: Derived from Guava's UnsignedLongs, (C) 2011 The Guava Authors
  
- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
  - License: Boost Software License 1.0 ([license/third\_party/boost\_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.
  
- Path: libraries/stdlib/js/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
  - Origin: Derived from GWT, (C) 2007-08 Google Inc.
  
- Path: libraries/stdlib/native-wasm/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
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- Path: libraries/stdlib/js-v1/src/js/long.js
  - License: Apache 2 ([license/third\_party/closure-compiler\_LICENSE.txt][closure-compiler])
  - Origin: Google Closure Library, Copyright 2009 The Closure Library Authors
  
- Path: libraries/stdlib/js-v1/src/js/polyfills.js
  - License: Boost Software License 1.0 ([license/third\_party/boost\_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.
  
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  - License: Apache 2 ([third\_party/assemblyscript\_license.txt][assemblyscript])
  - Origin: Derived from assemblyscript standard library
  
- Path: plugins/lint/android-annotations
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: plugins/lint/lint-api
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- Path: plugins/lint/lint-idea

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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
    - License: MIT ([license/third\_party/asmble\_license.txt][asmble])
    - Origin: Copyright (C) 2018
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- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
    - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
    - Origin: Derived from JetPack Compose compiler plugin code, Copyright 2019 The Android Open Source Project
- Path: libraries/stdlib/wasm/src/kotlin/text/FloatingPointConverter.kt
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  - License: LGPL 2.1 ([license/third\_party/testdata/findbugs\_license.txt][findbugs])
  - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland
- Path: third-party/java8-annotations/org/eclipse
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- 
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- Path: libraries/tools/kotlin-gradle-plugin-integration-  
tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
  - License: Apache 2 ([license/third\_party/testdata/spring\_license.txt][spring])
  - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.
  
- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
  - License: Apache 2 ([license/third\_party/testdata/dagger\_license.txt][dagger])
  - Origin: Dagger, Copyright (C) 2013 Square, Inc.
  
- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/kapt2
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spring/src/main/java/org/springframework/stereotype/Component.java



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  - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

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  - License: Eclipse Public License v1.0 ([license/third\_party/testdata/eclipse\_license.txt][eclipse]) and Eclipse Distribution License - v1.0 ([license/third\_party/testdata/eclipse\_distribution\_license.txt][eclipse-distribution])
  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

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- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js
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- Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig
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 [eclipse-distribution]: third\_party/testdata/eclipse\_distribution\_license.txt  
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## 1.257 kotlin 1.6.21

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\*/

package tasks

import groovy.util.Node

import groovy.xml.XmlParser

import org.gradle.api.DefaultTask

import org.gradle.api.file.RegularFileProperty

```

import org.gradle.api.provider.Property
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.util.*

abstract class WriteCopyrightToFile : DefaultTask() {
 @InputFile
 val path = project.file("${project.rootDir}/.idea/copyright/apache.xml")

 @get:OutputFile
 abstract val outputFile: RegularFileProperty

 @get:Input
 val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

 @TaskAction
 fun write() {
 val file = outputFile.asFile.get()
 file.writeText(if
(commented.get()) readCopyrightCommented() else readCopyright())
 }

 private fun readCopyright(): String {
 assert(path.exists()) {
 "File $path with copyright not found"
 }

 val xmlParser = XmlParser()
 val node = xmlParser.parse(path)
 assert(node.attribute("name") == "CopyrightManager") {
 "Format changed occasionally?"
 }

 val copyrightBlock = node.children().filterIsInstance<Node>().single()
 val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
 return noticeNode.attribute("value").toString().replace("$today.year",
GregorianCalendar()[Calendar.YEAR].toString())
 }

 private fun readCopyrightCommented(): String {
 return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
 }
}

```

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

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From dso/aix/dso.c:

\* Based on libdl (dlfcn.c/dlfcn.h) which is  
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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

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From strings/apr\_snprintf.c:



\*  
\* cvt - IEEE floating point formatting routines.  
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/MaxStackSizeAndLocalsCalculator.java
  - License: BSD ([license/third\_party/asm\_license.txt](asm))
  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
  
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  - License: BSD ([license/third\_party/asm\_license.txt](asm))
  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
  
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/FastMethodAnalyzer.kt
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/InstructionLivenessAnalyzer.kt
  - License: BSD ([license/third\_party/asm\_license.txt][asm])
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/ControlFlowGraph.kt
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/temporaryVals/FastStoreLoadAnalyzer.kt
  - License: BSD ([license/third\_party/asm\_license.txt][asm])
  - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: core/reflection.jvm/src/kotlin.reflect/jvm/internal/pcollections
  - License: MIT ([license/third\_party/pcollections\_LICENSE.txt][pcollections])
  - Origin: Derived from PCollections, A Persistent Java Collections Library (<https://pcollections.org/>)
- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
  - License: BSD ([license/third\_party/asm\_license.txt][asm])
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- Path: js/js.ast
  - License: BSD ([license/third\_party/dart\_LICENSE.txt][dart])
  - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,
- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
  - License: BSD ([license/third\_party/dart\_LICENSE.txt][dart])
  - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,
- Path: js/js.parser/src/com/google
  - License: Netscape Public License 1.1 ([license/third\_party/rhino\_LICENSE.txt][rhino])
  - Origin: Originally part of GWT, (C) 2007-08

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  - License: MIT ([license/third\_party/qunit\_license.txt][qunit])
  - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,
  
- Path: libraries/stdlib/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
  - Origin: Derived from GWT, (C) 2007-08 Google Inc.
  
- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
  - License: Apache 2 ([license/third\_party/guava\_license.txt][guava])
  - Origin: Derived from Guava's UnsignedLongs, (C) 2011 The Guava Authors
  
- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
  - License: Boost Software License 1.0 ([license/third\_party/boost\_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.
  
- Path: libraries/stdlib/js/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
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- Path: libraries/stdlib/native-wasm/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
  - Origin: Derived from GWT, (C) 2007-08 Google Inc.
  
- Path: libraries/stdlib/js-v1/src/js/long.js
  - License: Apache 2 ([license/third\_party/closure-compiler\_LICENSE.txt][closure-compiler])
  - Origin: Google Closure Library, Copyright 2009 The Closure Library Authors
  
- Path: libraries/stdlib/js-v1/src/js/polyfills.js
  - License: Boost Software License 1.0 ([license/third\_party/boost\_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.
  
- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
  - License: Apache 2 ([third\_party/assemblyscript\_license.txt][assemblyscript])
  - Origin: Derived from assemblyscript standard library
  
- Path: plugins/lint/android-annotations
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: plugins/lint/lint-api
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: plugins/lint/lint-idea
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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
  - License: MIT ([license/third\_party/asmble\_license.txt][asmble])
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- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
  - Origin: Derived from JetPack Compose compiler plugin code, Copyright 2019 The Android Open Source Project

- Path: libraries/stdlib/wasm/src/kotlin/text/FloatingPointConverter.kt
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- Path: third-party/annotations/edu/umd/cs/findbugs
  - License: LGPL 2.1 ([license/third\_party/testdata/findbugs\_license.txt][findbugs])
  - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland



- Path: third-party/java8-annotations/org/eclipse
  - License: Eclipse Public License v1.0 ([license/third\_party/testdata/eclipse\_license.txt][eclipse])
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- Path: third-party/annotations/io/reactivex
  - License: Apache 2 ([license/third\_party/testdata/rxjava\_license.txt][rxjava])
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- Path: third-party/java8-annotations/org/jspecify
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- Path: third-party/java9-annotations/org/jspecify
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- Path: third-party/annotations/lombok
  - License: MIT ([license/third\_party/testdata/lombok\_license.txt][lombok])
  - Origin: Project Lombok, Copyright (C) 2009-2013 The Project Lombok Authors
  
- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: idea/testData/android/lintQuickfix/requiresApi/RequiresApi.java
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- Path: idea/testData/android/lint/IntRange.java
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  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
  - License: Apache 2 ([license/third\_party/testdata/spring\_license.txt][spring])
  - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.
  
- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
  - License: Apache 2 ([license/third\_party/testdata/dagger\_license.txt][dagger])
  - Origin: Dagger, Copyright (C) 2013 Square, Inc.

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  - License: Apache 2 ([license/third\_party/testdata/dagger\_license.txt][dagger])
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  - License: Apache 2 ([license/third\_party/gradle\_license.txt][gradle])
  - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/target/test-classes/testProject/noArgJpa/src/javax/persistence/Entity.java
  - License: Eclipse Public License v1.0 ([license/third\_party/testdata/eclipse\_license.txt][eclipse]) and Eclipse Distribution License - v1.0 ([license/third\_party/testdata/eclipse\_distribution\_license.txt][eclipse-distribution])
  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Entity.java
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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

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  - License: MIT ([license/third\_party/karma\_LICENSE.txt](third\_party/karma\_LICENSE.txt) and [license/third\_party/karma-teamcity-reporter\_LICENSE.txt](third\_party/karma-teamcity-reporter\_LICENSE.txt))
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- Origin: Copyright (c) 2016 Jamie Sherriff
  
- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts
  - License: MIT ([license/third\_party/teamcity-service-messages\_LICENSE.txt](third\_party/teamcity-service-messages\_LICENSE.txt) and [license/third\_party/lodash\_LICENSE.txt](third\_party/lodash\_LICENSE.txt))
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- Path: libraries/tools/kotlin-test-js-runner/src/teamcity-format.js
  - License: MIT ([license/third\_party/mocha-teamcity-reporter\_LICENSE.txt](third\_party/mocha-teamcity-reporter\_LICENSE.txt) and [license/third\_party/teamcity-service-messages\_LICENSE.txt](third\_party/teamcity-service-messages\_LICENSE.txt))
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  - Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig
  
- Path: libraries/examples/browser-example-with-library/src/js/jquery.js
  - License: MIT ([license/third\_party/jquery\_license.txt](jquery))
  - Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

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[eclipse]:  
    third\_party/testdata/eclipse\_license.txt  
[eclipse-distribution]: third\_party/testdata/eclipse\_distribution\_license.txt  
[findbugs]: third\_party/testdata/findbugs\_license.txt  
[gradle]: third\_party/gradle\_license.txt  
[guava]: third\_party/guava\_license.txt  
[gwt]: third\_party/gwt\_license.txt  
[jquery]: third\_party/jquery\_license.txt  
[lombok]: third\_party/testdata/lombok\_license.txt  
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Found in path(s):

```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/GsonBuildConfig.java
```

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TreeTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java  
\*  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

```
jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/TypeAdapter.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
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```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java
```



\*  
/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingStrategy.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/SerializedName.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializationContext.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Excluder.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingPolicy.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/\$Gson\$Preconditions.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializationContext.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParseException.java  
\*  
/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ObjectConstructor.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/Gson.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonIOException.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializer.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/Expose.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Primitives.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/GsonBuilder.java  
\*  
/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/Since.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/ExclusionStrategy.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/InstanceCreator.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonNull.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/annotations/JsonAdapter.java

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jar/com/google/gson/internal/LinkedHashMap.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

jar/com/google/gson/internal/LinkedTreeMap.java

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonScope.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonWriter.java
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/ReflectionAccessor.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/PreJava9DateFormatProvider.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/JavaVersion.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/ToNumberStrategy.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonSyntaxException.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Streams.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonStreamParser.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/LongSerializationPolicy.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParser.java

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"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library 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".)

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

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

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

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

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

b) Accompany the work

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

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

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

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

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

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

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

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

8. 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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it

is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Also add information on how to contact you by electronic and paper mail.

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

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

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

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[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.]  
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@subheading Preamble

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This license, the Lesser General Public License, applies to some specially designated software---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.

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

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

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

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

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

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

@end enumerate

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

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

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

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

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

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

@item

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

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

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

therefore falls outside the scope of this License.

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

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

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

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

@item

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

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

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

@item

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

@item

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

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

@item

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

@end enumerate

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



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

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

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

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

@end enumerate

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```
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69, Copyright (C) year name of author
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it under certain conditions; type `show c' for details.
```

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```

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Ty Coon, President of Vice
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## 1.262 zstd-jni 1.5.2-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1642851452470

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1.5.2-1.so;osname=Linux;processor=arm, linux/i386/libzstd-jni-1.5.2-1.so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.5.2.1

Created-By: 11.0.14 (Debian)

Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.luben.zstd.util;version="1.5.2.1"

Implementation-Title: zstd-jni

Implementation-Vendor: com.github.luben  
Implementation-Vendor-Id: com.github.luben  
Implementation-Version: 1.5.2-1  
Import-Package: org.osgi.framework;resolution:=optional  
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86\_64,darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=11.0))"  
"  
Specification-Title: zstd-jni  
Specification-Vendor: com.github.luben  
Specification-Version: 1.5.2-1  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1337889408\_1654234488.39181/0/zstd-jni-1-5-2-1-jar/META-INF/MANIFEST.MF

## 1.263 grpc-protobuf 1.46.0

### 1.263.1 Available under license :

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## 1.264 grpc-protobuf-lite 1.46.0

### 1.264.1 Available under license :

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## 1.265 protobuf-java-util 3.20.1

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Manifest-Version: 1.0  
Automatic-Module-Name: com.google.protobuf.util  
Bnd-LastModified: 1650575265454  
Build-Jdk: 1.8.0\_181-google-v7  
Built-By: haberman  
Bundle-Description: Utilities for Protocol Buffers  
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>  
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>  
Bundle-ManifestVersion: 2  
Bundle-Name: Protocol Buffers [Util]  
Bundle-SymbolicName: com.google.protobuf.util  
Bundle-Version: 3.20.1  
Created-By: Apache Maven Bundle Plugin



Export-Package: com.google.protobuf.util;version="3.20.1";uses:="com.google.protobuf,javax.annotation"

Import-Package: com.google.common.base;version="[30.1,31)",com.google.common.io;version="[30.1,31)",com.google.common.math;version="[30.1,31)",com.google.common.primitives;version="[30.1,31)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf;version="[3.20,4)",javax.annotation;version="[3.0,4)"

Require-Capability:

osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1338477547\_1654302204.1928751/0/protobuf-java-util-3-20-1-jar/META-INF/MANIFEST.MF

# 1.266 free-type 2.12.1

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2006-Jan-27

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#
docs/FTL.TXT
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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
```

```
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/inftutil.c
src/gzip/inftutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
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EOF
```

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\* /opt/cola/permits/1341973832\_1654828192.0930383/0/netty-tcnative-classes-2-0-52-final-sources-  
jar/io/netty/internal/tcnative/AsyncTask.java  
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* /opt/cola/permits/1341973832_1654828192.0930383/0/netty-tcnative-classes-2-0-52-final-sources-
jar/io/netty/internal/tcnative/SSL.java
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## 1.269 okhttp 4.10.0

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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,elementIndex,terminalOptions={}) ::= <<
<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,elementIndex,postmatchCode,terminalOptions={ }) ::= <<
<super.matchSet(postmatchCode={ <if(backtracking)>if (<actions.(actionScope).synpredgate>
<endif>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>=(<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(token=[],...)>"

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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp2/ASTParser.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>)
>>
```

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\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/CSharp3/ST.stg

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/\*

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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 <t> from <c:{s|s.enclosingRule>} ; separator=", ">}; separator=" and ">  
>>

UNREACHABLE\_TOKENS(tokens) ::= <<

The following token definitions can never be matched because prior tokens match the same input: <tokens; separator=", ">  
>>

TOKEN\_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::=

<<

<if(paths>

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

<paths:{ 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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/tool/templates/messages/languages/en.stg

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\*/

/\*

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

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

This file contains the format that mimicks GCC output.

\*/

group gnu;

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/tool/templates/messages/formats/gnu.stg

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\*/

Found in path(s):



\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/ObjC/Dbg.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.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>"; } }

<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>

```

```

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)><ruleDescriptor.parameterScope.attributes: { a | a.name;
format="id"> }; separator=", "><endif> }; \} } ; 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.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);
<elseif(ruleDescriptor.returnScope)>
<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>
;
%>

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,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<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>

>>

>>

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;<\n>

<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) ::= <<
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\t\t"">";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t\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.
*/
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)>
<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>
<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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp3/CSharp3.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 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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/CSharp2/ST.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=false, treeLevel=false) ::= <<
- <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) == 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>
<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.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><(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) ::= <<
<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.ruleRefRuleRootTrack(...)>
<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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.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="
">) 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="
">)) 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>
>>

```

Found in path(s):

\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Delphi/AST.stg  
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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.prealt() ::= "<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/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/C/Dbg.stg
```

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```
/*
```

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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.delegators: {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="\n" >
 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="\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 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 \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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Python3/Python3.stg
```

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```

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```

```
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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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,elementIndex,terminalOptions={}) ::= <<
<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,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={ <if(!ruleDescriptor.isSynPred)><if(backtracking)>if
(<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);<endif>},
...)>
>>

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>=(<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(token=[],...)>"
```

```
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.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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/CSharp3/ASTParser.stg

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/\*

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\*/

/\*\* Template overrides to add debugging to AST stuff. Dynamic inheritance

\* hierarchy is set up as ASTDbg : AST : Dbg : 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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Java/ASTDbg.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.

\*/

```
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/1347859860_1655734093.589936/0/antlr-3-5-3-
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```

```
/*
```

```
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```
*/
```

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

```
*
```

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

```
* Auto build or rewrite
```

- \* no label, label, list label (label/no-label handled together)
- \* child, root
- \* token, set, rule, wildcard
- \*
- \* The situation is not too bad as rewrite (->) usage makes ^ and !
- \* invalid. There is no huge explosion of combinations.
- \*/

group ASTParser;

```
@rule.setErrorReturnValue() ::= <<
RetVal.Tree := 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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Delphi/ASTParser.stg

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

/\*

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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:{||RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

```

```

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

```

```

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

```

```

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

```

```

<endif>
<endif>
>>

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

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
$ANTLR start <ruleName>
sub m_<ruleName> {
<ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_ ;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
my $_type = <ruleName>;
my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
$self->state->type($_type);
$self->state->channel($_channel);
<(ruleDescriptor.actions.after):execAction()>
<endif>
};
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>

if ($EVAL_ERROR) {
croak $EVAL_ERROR;
}

```

```

}
$ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
 my ($self) = @_;
 <block><\n>
}
>>

// S U B R U L E S

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

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

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

```

```

<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
<fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
my $cnt<decisionNumber> = 0;
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
 my $alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>

switch ($alt<decisionNumber>) {
 <alts:altSwitchCase()>
 else {
 if ($cnt<decisionNumber> >= 1) { last LOOP<decisionNumber> }
 <ruleBacktrackFailure()>
 my $see =
 ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
 <@earlyExitException()>
 croak $see;
 }
}
++$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;
 }<\n>

```

```

<endif>

my $nvae =
 ANTLR::Runtime::NoViableAltException->new({
 grammar_decision_description => $self->get_description(),
 decision_number => <dfa.decisionNumber>,
 state_number => $s,
 input => $input,
 });<\n>
 $self->error($nvae);
 $nvae->throw();
} <\n>
<endif>
} <\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
my $input = $self->input;
my $LA<decisionNumber>_<stateNumber> = $input->LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
my $index<decisionNumber>_<stateNumber> = $input->index();
$input->rewind();<\n>
<endif>
s = -1;
<edges; separator="\nls">
<if(semPredState)> <!
 return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if (s>=0) return s;
break;
>>

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

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

```

>>

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

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

orPredicates(operands) ::= "<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>

```

```

<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/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Perl5/Perl5.stg
No license file was found, but licenses were detected in source scan.

```

/\*

[The "BSD license"]

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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.delegates:{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.delegates):{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.attribut
es:{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:InputStream):int {
```

```
 <if(LEXER)>
```

```
 var input:InputStream = _input;
```

```
 <endif>
```

```
 <if(PARSER)>
```

```
 var input:TokenStream = TokenStream(_input);
```

```
 <endif>
```

```
 <if(TREE_PARSER)>
```

```
 var input:TreeNodeStream = TreeNodeStream(_input);
```

```
 <endif>
```

```
var _s:int = s;
```

```
switch (s) {
```

```
 <dfa.specialStateSTs: {state |
```

```
case <i0> : <! compressed special state numbers 0..n-1 !>
```

```
 <state> }; separator="\n">
```

```
 }
```

```
<if(backtracking)>
```

```

 if (this.state.backtracking>0) {this.state.failed=true; return -1;}<\n>
<endif>
 throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>,
_s, input));
} <\n>
<endif>

protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor

>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD license"]
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```

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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">
 }
 >>

```

```

/** 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.delegates:{g|,<g.recognizerName>
<g.delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state) {
 import <grammar.recognizerName>._
 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName()>}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName()>}; separator="\n">
 <last(grammar.delegates):{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.delegates:{g|,<g.recognizerName> <g.delegateName()>}>: <inputStreamType>) =
 this(input, new RecognizerSharedState()<grammar.delegates:{g|,<g.delegateName()>}>)

 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|,
<p.delegateName()>}>, this)}; separator="\n">
 <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>};
separator="\n">
 <last(grammar.delegates):{g|gParent = <g.delegateName()>}>
 <@end>

 override 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.hasReturnValue)>return
<endif><ruleDescriptor.grammar.delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes: {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>
}
>>

// 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>
 = <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,description) ::= <<

// <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) ::= ""

// ELEMENTS

/** 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 {

```



```

 <dfa.javaCompressedTransition: {s|<s; wrap="\n\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/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Scala/Scala.stg
```

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

```
/*
```

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

```
Copyright (c) 2005-2012 Terence Parr
```

```
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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.ruleRefRuleRootTrack(...)>
>>

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

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Python3/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD license"]

```

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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(trace)>
#include <iostream>
<endif>
<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 UINT32
* 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,
 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()> has the callable functions (rules) shown below,
<endif>
<if(LEXER)>
* The lexer <mainName()> has the callable functions (rules) shown below,
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()> has the callable functions
(rules) shown below,
<endif>
* 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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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: {g|class <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">

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 | <if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)><endif>}>

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()>}>
);

 <actions.(actionScope).context>

<if(LEXER)>
<if(recognizer.filterMode)>
 void memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart);
 bool alreadyParsedRule(ANTLR_MARKER ruleIndex);
 <filteringNextToken()>
<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 | <headerReturnScope(ruleDescriptor=r.ruleDescriptor)>>
 <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>();

};

// Function prototypes 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(scope=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.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| 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>
 <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>(<if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope.attributes:{ a|<a.name>
 <e>}; separator=", "><endif>);
 \}); 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 ImplTraits::CommonTokenType*",
 members={ <actions.parser.members> }
) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTokenStreamType*", rewriteElementType="Token", filterMode=false,

```

```

...)>
<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="ImplTraits::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>

goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
}
// $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>
<if(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name>;
}>
<endif>
<endif>
<if(memoize)>
ANTLR_MARKER <ruleDescriptor.name>_startIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
*/

```

```

<if(ruleDescriptor.returnScope)>
<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>
<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,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it |<labelType> <it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | ImplTraits::TokenPtrsListType list_<it.label.text>;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
>>

```

```

ruleLabelInitializations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.call_start_placeholder();
<endif>
<endif>
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<labelType> <it.label.text> = NULL;}; 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.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)>
 std::cout <<< "enter <ruleName> " <<< (char)this->LA(1)
 <<< " line=" <<< this->getLine() <<< ":" <<< this->getCharPositionInLine()
 <<< " failed=" <<< this->get_failedflag() <<< " backtracking=" <<< this->get_backtracking() <<<
 std::endl;
 <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)>
 std::cout <<< "exit <ruleName> " <<< (char)this->LA(1)
 <<< " line=" <<< this->getLine() <<< ":" <<< this->getCharPositionInLine()
 <<< " failed=" <<< this->get_failedflag() <<< " backtracking="
 <<< this->get_backtracking() <<< std::endl;
 <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)>
ANTLR_MARKER <label>Start = this->getCharIndex();
ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
this->matches(<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());
<label>->set_line(<label>StartLine<elementIndex>);
<label>->set_charPositionInLine(<label>StartCharPos<elementIndex>);
<else>
this->matches(<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_UINT32 <label>Start<elementIndex> = this->getCharIndex();
 ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
 ANTLR_UINT32 <label>StartCharPos<elementIndex>
= this->getCharPositionInLine();
 <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());
 <label>->set_line(<label>StartLine<elementIndex>);
 <label>->set_charPositionInLine(<label>StartCharPos<elementIndex>);
}
<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>;
 ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
 ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
 <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());
 <label>->set_line(<label>StartLine<elementIndex>);
 <label>->set_charPositionInLine(<label>StartCharPos<elementIndex>);
}
<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 ((<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 (this->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 (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);
}

<if(PARSER)>
const CtxType::CommonTokenType* LT(ANTLR_INT32 k)
{
 return m_ctx->LT(k);
}
<endif>
<if(synpreds)>
template<typename PredType>
bool msynpred(PredType pred)
{
 return m_ctx->msynpred(pred);
}
<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 ((<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:{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.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) ::= <<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
>>

/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>ImplTraits::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:returnStructName()> : public <name>ImplTraits::RuleReturnValueType
{
public:
typedef <name>ImplTraits::RuleReturnValueType BaseType;
<ruleDescriptor:returnStructName()>()
: BaseType()

```

```

 <if(scope)>, <scope.attributes:{it | <it.name>() }; separator=","><endif>
 { init(); }
<ruleDescriptor:returnStructName()>(BaseParserType* parser)
 : BaseType(parser)
 <if(scope)>, <scope.attributes:{it | <it.name>() }; separator=","><endif>
 { init(); }
<ruleDescriptor:returnStructName()>(const <ruleDescriptor:returnStructName()>& other)
 : BaseType(other)
<if(scope)>, <scope.attributes:{it | <it.name>(other.<it.name>) }; separator=","><endif>
{ copy(other);
}
~<ruleDescriptor:returnStructName()>()
{
 <@ruleReturnMembersDelete()>
}

<ruleDescriptor:returnStructName()>&
operator=(const <ruleDescriptor:returnStructName()>& other)
{
 BaseType::operator=(other);
 <if(scope)><scope.attributes:{it | <it.name> = other.<it.name>; }; separator="\n"><endif>
 copy(other);
 return *this;
}
<@ruleReturnMembers()>
void init() { <@ruleReturnMembersInit()> }
void copy(const <ruleDescriptor:returnStructName()>& other) { <@ruleReturnMembersCopy()> }
<else>
struct <ruleDescriptor:returnStructName()>
{
public:
 <name>ImplTraits::<recognizer.ASTLabelType> start;
 <name>ImplTraits::<recognizer.ASTLabelType> stop;
 <ruleDescriptor:returnStructName()>(const <ruleDescriptor:returnStructName()>& other)
 <if(scope.attributes)>
 <scope.attributes:{it | <it.name>(other.<it.name>) }; separator=",">
 <endif>
 {
 start = other.start;
 stop
 = other.stop;
 }

 <ruleDescriptor:returnStructName()>&
operator=(const <ruleDescriptor:returnStructName()>& other)
 {
 start = other.start;
 stop = other.stop;
 }
}

```

```

 <scope.attributes:{it | <it.name> = other.<it.name>; }; separator="\n">
 return *this;
 }
<endif>
 <if(scope)><scope.attributes:{it |<it.type> <it.name>; }; separator="\n"><endif>
};

<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()->getTokenStartLine()"
lexerRulePropertyRef_pos(scope,attr) ::= "this->get_state()->getTokenStartCharPositionInLine()"
lexerRulePropertyRef_channel(scope,attr) ::= "this->get_state()->get_channel()"
lexerRulePropertyRef_start(scope,attr) ::= "this->get_state()->getTokenStartCharIndex()"
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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Cpp/Cpp.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;
```

```

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/1347859860_1655734093.589936/0/antlr-3-5-3-
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* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg
* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Python/Dbg.stg
* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Python3/Dbg.stg
*

```

```
/opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Python/ST.stg
* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Python3/ST.stg
* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Java/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):

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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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg

```

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```

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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>
>>

// 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(...)>
<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,args,terminalOptions={}) ::= <<
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,args,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

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

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
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,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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp2/AST.stg
```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```

@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>",<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>",<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,args,terminalOptions={}) ::= <<
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,args,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

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

```

```

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
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,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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/CSharp3/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() ::= <<
// 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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp3/ASTDbg.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()>
<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>
<endif(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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
```

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\*/

Found in path(s):

```
* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Python/ASTDbg.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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
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```

```

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```

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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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/C/AST.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.
 */

@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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/ObjC/ST.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() ::= <<

```
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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
```

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```
/*
```

```
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```

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

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

\* child, root

\* token, set, rule, wildcard

\*

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

\* invalid. There is no huge explosion of combinations.

\*/

```
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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Python/ASTParser.stg

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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>
<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>",<it>",<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>",<it>",<it>");};
 separator="\n"
>
>>

```

```

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

```

```

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

```

```

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

```

```

rewriteAlt(a) ::= <<

```

```

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

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

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
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/1347859860_1655734093.589936/0/antlr-3-5-3-
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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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/ObjC/AST.stg

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\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Java/ST.stg  
\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Java/Dbg.stg  
\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Python/AST.stg  
\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/ObjC/ST4ObjC.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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg

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```

/*
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 *
 * Conversion to C#:
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 *
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```

```

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** 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.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(>)"

/*
* 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.preal() ::= "<enterAlt(n=\"1\")>"

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

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

```

Found in path(s):

```

* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
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>
<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>", list_<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>);};
 separator="\n"
>
<referencedRuleLabels
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null);};
 separator="\n"
>
<referencedRuleListLabels
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",<it>);};
 separator="\n"
>
>>

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

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks

```



```

description) ::=
<<
// <fileName>:<description>
while (<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

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

```

```

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

```

```

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

```

```

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

```

```

}<\n>
>>

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

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

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/JavaScript/AST.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, ...
- \*/

```
/** 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=false, treeLevel=false) ::= <<
<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.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><(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.ruleRefRuleRootTrack(...)>
<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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
```

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```

```
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```

```
*/
```

```
/*
```

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

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

```
This file contains the default format ANTLR uses.
```

```
*/
```

```
group antlr;
```

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

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

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

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

Found in path(s):

\*

```
/opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/tool/templates/messages/formats/antlr.stg
```

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```
/*
```

```
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```

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```
*/
```

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

```

*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** 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) ::= <<
_Llast := 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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg

```

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/\*

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\*/

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

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

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

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

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

ruleDeclarations()

```

 ::= <<
 <super.ruleDeclarations()>
 <ASTLabelType> _first_0 = null;
 <ASTLabelType> _last = null;<\n>
 >>

 /** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
 noRewrite(rewriteBlockLevel, treeLevel) ::= <<
 <if(backtracking)>if (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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg

```

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```

/*

```

```

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```

```

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```

```

http://www.temporal-wave.com

```

```

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```

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\*/

/\*

\* This code generating template and the associated C runtime was produced by:

\* Jim Idle jim|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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// 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.

<if(actions.(actionScope).header)>

/* =====
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.
* =====
*/
<endif>

/* -----
* Include the ANTLR3 generated header file.
*/
#include "<name>.h"
<actions.(actionScope).postinclude>

```

```
/* ----- */
```

```
<docComment>
```

```
<if(literals)>
```

```
/** String
```

```
literals used by <name> that we must do things like MATCHS() with.
```

```
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
```

```
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
```

```
* we perform this little trick of defining the literals as arrays of UINT32
```

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

```
*/
```

```
<literals:{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 = &(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 PARSE ctx->pParser
#define RECOGNIZER PARSE->rec
#define PSRSTATE RECOGNIZER->state
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUT PARSE->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 PERRORRECOVERY 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->tnstream->istream
#define STRSTREAM INPUT->tnstream
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define
 PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) ISTREAM->_LA(ISTREAM, n)
#define LT(n) INPUT->tnstream->_LT(INPUT->tnstream, 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 PERRORRECOVERY 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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// 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

#ifdef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/* End of token definitions for <name>
* =====
*/

```

```

/** \} */

#ifdef __cplusplus
}
#endif

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

inputType() ::= <<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

```

```
headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"
```

```
headerReturnType(ruleDescriptor)
```

```
::= <<
```

```
<if(LEXER)>
```

```
<if(!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.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|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.delegators)>
// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
 {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|
 <returnType()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>
 \{
 <if(ruleDescriptor.hasReturn Value)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
><ruleDescriptor.name>(ctx-
><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", ">;
 \}); separator="\n\n">
```

```
<endif>
/* End of parsing rules
* =====
*/

/* =====
* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>>
/* End of syntactic predicates
* =====
*/
```

>>

```
parser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,
 numRules,
 bitsets,
 ASTLabelType,
 superClass="Parser",
 labelType="pANTLR3_COMMON_TOKEN",
 members={<actions.parser.members>}
)
 ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN",
 ...)>
>>
```

```
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
```

```
treeParser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 globalAction,
 rules,
 numRules,
 bitsets,
 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>
<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)
n)
::= <<
// <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()>
}
>>

// 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> = (<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()>

 <newNVException()>
 goto rule<ruleDescriptor.name>Ex;

<endif>
 }
}
>>

newNVException() ::= <<
 CONSTRUCTEX();
 EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
 EXCEPTION->message = (void *)"<description>";
 EXCEPTION->decisionNum
 = <decisionNumber>;
 EXCEPTION->state = <stateNumber>;
 <@noViableAltException()>
 <\n>
>>

```

```

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

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

```

```

dfaLoopbackStateDecls() ::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
::= <<
{
 /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
 */
 int LA<decisionNumber>_<stateNumber> = LA(<k>);
 <edges; separator="\nelse "><\n>
 <if(eotPredictsAlt)>
 <if(!edges)>
 alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
 <else>
 else
 {
 alt<decisionNumber>=<eotPredictsAlt>;
 }<\n>
 <endif>
 <endif>
}
>>

```

```

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

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.

```

```

*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<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.singleValueType>
<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.singleValueType>
<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/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/C/C.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>
>>
```

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\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/tool/templates/dot/dot.stg

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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>
>>

```

// 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>.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>
%>
```

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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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```
*/
```

```
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 rewriting 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:
IRRecognizerSharedState<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;
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;
end;

>>

filteringActionGate() ::= "(State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,
 ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>>>
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
 <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>>>
end;

T<grammar.recognizerName>
= class(T<@superClassName><superClass><@end>, I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>

```

```

public
 const
 TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = (
 '\<invalid>',
 '\<EOR>',
 '\<DOWN>',
 '\<UP>',
 <tokenNames; separator=",\n">;<\n>
<endif>
public
 const
 <tokens:{<it.name> = <it.type>;}; separator="\n">
public
 // delegates
 <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
 // delegators
 <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
 <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>

 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}>
<@members>
 <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public
 constructor Create(const AInput: <inputStreamType><grammar.delegators:{g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
 constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegators:{g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
<@end>
protected
 { IBaseRecognizer }
 function GetTokenNames: TStringArray; override;
 function GetGrammarFileName: String; override;
strict private
 <actions.(actionScope).memberDeclarations>
 <rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>}>

 <! generate rule/method definitions for imported rules so they
 appear to be defined in this recognizer. !>
 // Delegated rules
 <grammar.delegatedRules:{ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>}>

 <synpreds:{p | <synpredDeclaration(p)>}; separator="\n">
 <cyclicDFAs:cyclicDFADeclaration()>
strict private
 FException: ERecognitionException;
 FLA: array [0..<grammar.numberofDecisions>, 0..255] of Integer;

```

```

 FCnt:
 array [0..<grammar.numberofDecisions>] of Byte;
 procedure InitializeCyclicDFAs;
<if(bitsets)>
public
 class var
 <bitsets.bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
 class procedure InitializeBitsets; static;<\n>
<endif>
end;

implementation

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

{ T<grammar.recognizerName> }

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

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>;
const AState: IRecognizerSharedState<grammar.delegates:{g|; const A<g:delegateName():>:
IBaseRecognizer{<g.recognizerName>}}>);
begin
 inherited Create(AInput, AState);
<@membersConstructor>
<@end>
<parserCtorBody()>
<grammar.directDelegates: {g|<g:delegateName():> := T<g.recognizerName>.Create(Input,
State<trunc(g.delegates):{p|, <p:delegateName():>}, Self);}; separator="\n">
<grammar.indirectDelegates: {g | <g:delegateName():> := <g.delegate:delegateName():>.<g:delegateName():>};
separator="\n">
<last(grammar.delegates):{g|gParent := Pointer(A<g:delegateName():>);}>
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)>}>
<scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>

```

```

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
 <cyclicDFAs:{ dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
 <cyclicDFAs:{ dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<if(bitsets)>
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
 <bitsets:bitset(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
<endif>

<@membersImplementation>
<@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
 I: Integer;
begin
 SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
 for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
 Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
 end;

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
T DFA<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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Delphi/Delphi.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(...)>"
headerReturnTypes(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
#endif 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:{ll|ParserRuleReturnScope *<ll.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)><en
dif>
{
//<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+=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)>
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.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) ::= <% <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:<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/1347859860_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

/*
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* Copyright (c) 2005-2007 Kunle Odutola
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```

```

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* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

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 RewriteRuleITokenStream = 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">(<if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope.attributes:{a|<a.name;
 format="id">}; separator=", "><endif>); \} } }; 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.delegates:{g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegates:{g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|, <p.delegateName()>}>,
this);}; separator="\n">
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g
| <g.delegateName()> = <g.delegateName()>.<g.delegateName()>}; separator="\n">
<endif>
<if(grammar.delegates)>
<last(grammar.delegates):{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);
<elseif(ruleDescriptor.returnScope)>
<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.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>
;
%>

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,descriptio
n) ::= <<
// <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,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<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, 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 ">
<if(!!(isTrue.(last(edges).labelExpr)) && (!last(edges).predicates))>
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<endif>
}
<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>
}
>>

```

```
//
```

## Fixed DFA (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" ">"; 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)>
<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>
<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?(<<returnType(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"
```

```
isTrue ::= [
"true" : true,
default : false
]
```

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

```
* /opt/cola/permits/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp2/CSharp2.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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modification, are permitted provided that the following conditions
```

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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.delegates:{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.delegates):{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.delegates:
 {g|self.<g:delegateName()> = <g:delegateName()>; separator="\n">
 <last(grammar.delegates):
 {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">
 <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, 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="\nel">
<@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)
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>.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="\nel">

 <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
rule SetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
rule SetPropertyRef_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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Python/Python.stg
No license file was found, but licenses were detected in source scan.

/*
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Python3/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/1347859860\_1655734093.589936/0/antlr-3-5-3-  
jar/org/antlr/tool/templates/messages/formats/vs2005.stg

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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()>.<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((({ <ruleReturn Value()> })))> }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if
(state.failed) <returnStatement((({ <ruleReturn Value()> })))><endif>
>>

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

```

```

n) ::= <<
// <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+=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)>
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="\t"+\n\t\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/1347859860\_1655734093.589936/0/antlr-3-5-3-jar/org/antlr/codegen/templates/Java/Java.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() ::= <<

```

/* 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/1347859860_1655734093.589936/0/antlr-3-5-3-
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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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/C/ASTParser.stg

```

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group Dbg;

```

/*

```

```

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```

```

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```

```

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```

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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.prealt() ::= "<enterAlt(n={1})>"
```

```
@blockSingleAlt.prealt() ::= "<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> }
>>
```

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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.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()>"

/*
* 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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/CSharp2/Dbg.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, ...

\*/

/\*\* 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/1347859860_1655734093.589936/0/antlr-3-5-3-
jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg

```

## 1.271 activation-api 1.2.2

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# 1.272 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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## 1.273 scala 2.12.17

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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

```
{% if site.thisScalaVersion != site.latestScalaVersion %}
```

```
<div class="version-notice">This is the specification of a previous version of Scala. See the { site.latestScalaVersion }"/>Scala {{ site.latestScalaVersion }} spec.</div>
```

```
{% endif %}
```

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## 1.274 xz-libs 5.2.2-2.el7\_9

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```
*/
/**
 * Returns an array containing all of the elements in this deque, in
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 *
 * <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
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- \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java
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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/tlschannel/async/package-info.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java  
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/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/tlschannel/util/Util.java

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\* <https://github.com/marianobarrios/tls-channel>

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/MongoNodeIsRecoveringException.java

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/connection/netty/package-info.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/ByteBufBsonDocument.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/AsyncSingleBatchQueryCursor.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-

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jar/com/mongodb/event/ServerListenerAdapter.java
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jar/com/mongodb/DocumentToDBRefTransformer.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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*
/opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/internal/operation/BaseFindAndModifyOperation.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/client/model/gejson/codecs/package-info.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/event/ConnectionPoolCreatedEvent.java

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/opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
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jar/com/mongodb/DBRefCodecProvider.java
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/session/package-info.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/MongoNotPrimaryException.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/internal/connection/ClusterClock.java
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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/gejson/package-info.java  
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/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/gridfs/model/package-info.java  
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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/MongoSecurityException.java  
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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/ClientEncryptionSettings.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/management/NullMBeanServer.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/diagnostics/logging/package-info.java  
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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/InternalConnectionInitializationDescription.java  
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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/annotations/package-info.java  
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* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/internal/operation/CountDocumentsOperation.java

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/ProtocolHelper.java

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/Connection.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/QueryResult.java

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/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/ClientMetadataHelper.java

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/BucketAutoOptions.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/selector/ReadPreferenceServerSelector.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/IndexMap.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/CreateCollectionOptions.java

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/DnsSrvRecordMonitor.java

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\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/BaseQueryMessage.java

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 jar/com/mongodb/MongoClientException.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/diagnostics/logging/SLF4JLogger.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/client/result/InsertManyResult.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/internal/connection/X509Authenticator.java  
 \*  
 /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/client/model/ReplaceOptions.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/spi/dns/DnsClient.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/internal/operation/CursorHelper.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/MongoNamespace.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/internal/connection/DefaultSdamServerDescriptionManager.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/internal/connection/ServerDescriptionHelper.java  
 \* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-  
 jar/com/mongodb/connection/ServerId.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/KillCursorsMessage.java

\*

/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/AsynchronousChannelStream.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/DuplicateKeyException.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/ConnectionPoolListenerAdapter.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/GetMoreMessage.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/CompressedMessage.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/DnsSrvRecordInitializer.java

\*

/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/BulkWriteOptions.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/binding/TransactionContext.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/bulk/IndexRequest.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/QueryMessage.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/Facet.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/Windows.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/management/MBeanServerFactory.java

\*

/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/RenameCollectionOptions.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/TimeSeriesGranularity.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/async/function/AsyncCallbackLoop.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/TagSet.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/MapReduceWithInlineResultsOperation.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/session/ClientSessionContext.java

\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/connection/ClusterDescription.java

\*

/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/ClusterClosedEvent.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/result/package-info.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/bulk/BulkWriteUpsert.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/ConnectionReadyEvent.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/PowerOfTwoBufferPool.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/binding/WriteBinding.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/CommandResultCallback.java  
\*  
/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/management/MBeanServer.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/geojson/PolygonCoordinates.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/geojson/codecs/NamedCoordinateReferenceSystemCodec.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/CommandEvent.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/DeleteOptions.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/ClusterListener.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/Variable.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/FindAndReplaceOperation.java  
\*  
/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/UnwindOptions.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/Cluster.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/connection/netty/NettyStreamFactoryFactory.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/CountOptions.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/ValidationAction.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/TransactionOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/VisibleForTesting.java  
\*

/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/selector/ServerAddressSelector.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/CommandMessage.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/diagnostics/logging/Loggers.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/session/BaseClientSessionImpl.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/connection/ServerDescription.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/MongoSocketReadTimeoutException.java  
\*  
/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/Timeout.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/FindAndUpdateOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/CollationAlternate.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/ChangeStreamOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/connection/StreamFactory.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/diagnostics/logging/Logger.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/connection/netty/NettyStream.java  
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/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/ConnectionAddedEvent.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/SaslAuthenticator.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/package-info.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/Time.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/event/ClusterOpeningEvent.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/BsonField.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/geojson/MultiPoint.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/authentication/AwsCredentialHelper.java  
\*

/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/DropIndexOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/AsyncWriteOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/QueryHelper.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/DeleteOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/selector/PrimaryServerSelector.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/BsonWriterDecorator.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/FindAndDeleteOperation.java  
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/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/SnappyCompressor.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/BulkWriteBatchCombiner.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/client/model/InsertOneOptions.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/CommandEventSender.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/EstimatedDocumentCountOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/MapReduceToCollectionOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/MessageSettings.java  
\*  
/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/LoadBalancedServer.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/Server.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/InternalConnectionPoolSettings.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/operation/BaseWriteOperation.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/AutoEncryptionSettings.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/management/package-info.java  
\*  
/opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-jar/com/mongodb/internal/connection/CompressedHeader.java  
\* /opt/cola/permits/1356793684\_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-

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jar/com/mongodb/internal/connection/ServerTuple.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/internal/inject/Provider.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/internal/bulk/DeleteRequest.java
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/event/ServerMonitorListenerAdapter.java
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Found in path(s):

```
* /opt/cola/permits/1356793684_1656997111.625937/0/mongodb-driver-core-4-6-1-sources-
jar/com/mongodb/internal/authentication/SaslPrep.java
```

## 1.280 bson-record-codec 4.6.1

### 1.280.1 Available under license :

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- \* /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/RecordCodecProvider.java
- \* /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonId.java
- \* /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/package-info.java
- \*
- /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonRepresentation.java
- \* /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/package-info.java
- \* /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonProperty.java
- \* /opt/cola/permits/1356793478\_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/RecordCodec.java

## 1.281 jcommander 1.82

### 1.281.1 Available under license :

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- * /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/defaultprovider/EnvironmentVariableDefaultProvider.java

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```
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/IPParameterValidator.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/validators/PositiveInteger.java
*
/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/validators/NoValidator.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/IPParameterValidator2.java
```

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* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/JCommander.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/UnixStyleUsageFormatter.java

*

/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IUsageFormatter.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/DefaultUsageFormatter.java

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* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/URLConverter.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/BigDecimalConverter.java

*

/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/DoubleConverter.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/StringConverter.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/internal/Lists.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/IntegerConverter.java

* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ParameterDescription.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/FloatConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/PathConverter.java
*
/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IDefaultProvider.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IStringConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/internal/Maps.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/Parameter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/Parameters.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/BooleanConverter.java
*
/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ParameterException.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/NoConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ResourceBundle.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/FileConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/BaseConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/ISO8601DateConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/LongConverter.java
*
/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/URICConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/CharArrayConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-

```
jar/com/beust/jcommander/converters/InetAddressConverter.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/internal/Sets.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-
jar/com/beust/jcommander/ParametersDelegate.java
```

1.282 agent-api 4.5.13.27526

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```
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/AppdynamicsAgent.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/impl/NoOpExitCall.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/ExitCall.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/EumDelegate.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/EventPublisher.java
*
/opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/MetricPublisher.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/impl/NoOpTransaction.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/Transaction.java
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- * /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-jar/com/appdynamics/agent/api/ExitTypes.java
- * /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-jar/com/appdynamics/agent/api/bootstrap/NoOpTransactionDelegate.java
- * /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-jar/com/appdynamics/agent/api/bootstrap/IApiTransactionDelegate.java
- * /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-jar/com/appdynamics/agent/api/EntryTypes.java

1.283 rxjava-server 0.9.0

1.283.1 Available under license :

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1.284 core-server 0.9.0

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1.285 zlib 1.2.11

1.285.1 Available under license :

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

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.286 logback-throttling-appender 1.1.9

1.286.1 Available under license :

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* /opt/cola/permits/1368298591_1658301187.6939363/0/logback-throttling-appender-1-1-9-1-jar/META-INF/maven/io.dropwizard.logback/logback-throttling-appender/pom.xml

1.287 glibc-common 2.17-326.el7_9

1.287.1 Available under license :

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@subheading END OF TERMS AND CONDITIONS

@page

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@c ispell-local-pdict: "ispell-dict"
@c End:
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1.292 python-urlgrabber 3.10

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(For example, a function in a library to compute square roots has

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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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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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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1.294 wsgiref 0.1.2

1.294.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref/validate.py

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Metadata-Version: 1.0

Name: wsgiref

Version: 0.1.2

Summary: WSGI (PEP 333) Reference Library

Home-page: <http://cheeseshop.python.org/pypi/wsgiref>

Author: Phillip J. Eby

Author-email: web-sig@python.org

License: PSF or ZPL

Description: This is a standalone release of the ``wsgiref`` library to be included in Python 2.5. For the standalone version's documentation, see:

HTML

http://peak.telecommunity.com/wsgiref_docs/

PDF

<http://peak.telecommunity.com/wsgiref.pdf>

Platform: UNKNOWN

Found in path(s):

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/PKG-INFO

1.295 rpm-python 4.11.3-48.el7_9

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library".

The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary

General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library 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".)

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

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

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

You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free

Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

1.296 pygobject 3.22.0

1.296.1 Available under license :

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Version 2.1, February 1999

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[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.]

Preamble

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.

This license, the Lesser General Public License, applies to some 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.

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

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

libraries into non-free programs.

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

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

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

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

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

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

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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.

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

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

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

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

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

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

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

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

b) Use a suitable shared library mechanism for linking with the

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

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

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

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

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```

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1.300 javassist 3.29.1-GA

1.300.1 Available under license :

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```
/*
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 *
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 */
```

Found in path(s):

```
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtNewClass.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtField.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtMethod.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtConstructor.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ClassFilePrinter.java
```

* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/tools/reflect/Compiler.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/compiler/Lex.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/StackMapTable.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/analysis/MultiArrayType.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/URLClassPath.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/convert/TransformWriteField.java
 *
 /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/tools/reflect/Reflection.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/compiler/JvstCodeGen.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/Opcodes.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/convert/TransformNew.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/tools/web/Viewer.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/analysis/Type.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/convert/TransformFieldAccess.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtNewConstructor.java
 *
 /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/util/proxy/MethodHandler.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/Bytecode.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/expr/Cast.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/tools/rmi/RemoteRef.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/util/proxy/SecurityActions.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CodeConverter.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/analysis/Executor.java
 * /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/compiler/ast/IntConst.java

```

*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/Parser.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ByteArray.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/Javac.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/Loader.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/MethodDecl.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtMember.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/NotFoundException.java

```

```

* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/ClassMetaobject.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/convert/Transformer.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtClassType.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/runtime/Desc.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/ClassClassPath.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ConstPool.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-

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jar/javassist/compiler/MemberCodeGen.java
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1.301 spring-context 5.3.23

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Spring Framework 5.3.23

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- * HOMEPAGE:
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1.309 gson 2.9.1

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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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/opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/JsonStreamParser.java

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- */opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/stream/JsonScope.java
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* /opt/cola/permits/1425006102_1663939377.0609317/0/gson-2-9-1-sources-1-jar/com/google/gson/internal/Excluder.java
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1.311 ca-certificates 2022.2.54-74.el7_9

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`////`

`ca-legacy(8)`

`=====`

`:doctype: manpage`

`:man source: ca-legacy`

`NAME`

`----`

`ca-legacy - Manage the system configuration for legacy CA certificates`

`SYNOPSIS`

`-----`

`*ca-legacy* ['COMMAND']`

DESCRIPTION

ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved. Future versions of the ca-certificates package might reduce the set of legacy CA certificates that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS

***check*::**

The current configuration will be shown.

***default*::**

Configure the system to use the default configuration, as recommended by the package maintainers.

***disable*::**

Configure the system to explicitly disable legacy CA certificates. Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

***install*::**

The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

FILES

/etc/pki/ca-trust/ca-legacy.conf::

A configuration file that will be used and modified by the ca-legacy command.

The contents of the configuration file will be read on package upgrades.

AUTHOR

Written by Kai Engert.

Found in path(s):

* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/ca-legacy.8.txt

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////

update-ca-trust(8)

=====
:doctype: manpage
:man source: update-ca-trust

NAME

update-ca-trust - manage consolidated and dynamic configuration of CA certificates and associated trust

SYNOPSIS

update-ca-trust ['COMMAND']

DESCRIPTION

update-ca-trust(8) is used to manage a consolidated and dynamic configuration feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the consolidated configuration files found in the /etc/pki/ca-trust/extracted directory or that load the PKCS#11 module p11-kit-trust.so

Parts of the new feature are also provided in a way to make it useful for legacy applications.

Many legacy applications expect CA certificates and trust configuration in a fixed location, contained in files with particular path and name, or by referring to a classic PKCS#11 trust module provided by the NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or access the classic module, to make use of the new consolidated and dynamic configuration feature, the classic filenames have been changed to symbolic links.

The symbolic links refer to dynamically created and consolidated output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters), or using the 'update-ca-trust extract' command.

In order to produce the output, a flexible set of source configuration is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically reads the same source configuration.

[[sourceconf]]

SOURCE CONFIGURATION

The dynamic configuration feature uses several source directories that will be scanned for any number of source files. *It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *high priority*.

.You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:

- * If you are manually adding a configuration file to a system, you probably want it to override any other default configuration, and you most likely should add it to the respective subdirectory in the /etc hierarchy.
- * If you are creating a package that provides additional root CA certificates, that is intended for distribution to several computer systems, but you still want to allow the administrator to override your list, then your package should add your files to the respective subdirectory in the /usr hierarchy.
- * If you are creating a package that is supposed to override the default system trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective subdirectory in the /etc hierarchy.

.*QUICK HELP 1*:. To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:

- * add it as a new file to directory /etc/pki/ca-trust/source/anchors/
- * run 'update-ca-trust extract'

.*QUICK HELP 2*:. If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:

- * add it as a new file to directory /etc/pki/ca-trust/source/
- * run 'update-ca-trust extract'

.In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.

- * simple trust anchors subdirectory: `/usr/share/pki/ca-trust-source/anchors/` or `/etc/pki/ca-trust/source/anchors/`

*

- simple blacklist (distrust) subdirectory: `/usr/share/pki/ca-trust-source/blacklist/` or `/etc/pki/ca-trust/source/blacklist/`

- * extended format directory: `/usr/share/pki/ca-trust-source/` or `/etc/pki/ca-trust/source/`

.In the main directories `/usr/share/pki/ca-trust-source/` or `/etc/pki/ca-trust/source/` you may install one or multiple files in the following file formats:

- * certificate files that include trust flags,

in the BEGIN/END TRUSTED CERTIFICATE file format

(any file name), which have been created using the openssl x509 tool and the `-addreject -addtrust` options.

Bundle files with multiple certificates are supported.

- * files in the p11-kit file format using the `.p11-kit` file name extension, which can (e.g.) be used to distrust certificates based on serial number and issuer name, without having the full certificate available.

(This is currently an undocumented format, to be extended later.

For examples of the supported formats, see the files

shipped with the ca-certificates package.)

- * certificate files without trust flags in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files will be added with neutral trust, neither trusted nor distrusted.

They will simply be known to the system, which might be helpful to assist cryptographic software in constructing chains of certificates.

(If you want a CA certificate in these file formats to be trusted, you should remove it from this directory and move it to the `./anchors` subdirectory instead.)

In the anchors subdirectories `/usr/share/pki/ca-trust-source/anchors/` or `/etc/pki/ca-trust/source/anchors/` you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as `*trusted*` for all purposes.

In the blacklist subdirectories `/usr/share/pki/ca-trust-source/blacklist/` or `/etc/pki/ca-trust/source/blacklist/` you may install

one or multiple certificates in either the DER file

format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as `*distrusted*` for all purposes.

Please refer to the x509(1) manual page for the documentation of the BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs may load one of the files found in the `/etc/pki/ca-trust/extracted` directory. After modifying any file in the

`/usr/share/pki/ca-trust-source/` or `/etc/pki/ca-trust/source/`

directories or in any of their subdirectories, or after adding a file,
it is necessary to run the 'update-ca-trust extract' command,
in order to update the consolidated files in /etc/pki/ca-trust/extracted/ .

Applications that load the classic PKCS#11 module using filename libnssckbi.so
(which has been converted into a symbolic link pointing to the new module)
and any application capable of
loading PKCS#11 modules and loading p11-kit-trust.so,
will benefit from
the dynamically merged set of certificates and trust information stored in the
/usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]

EXTRACTED CONFIGURATION

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate
bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>>
by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,
then you can use these files in your application to load a list of global
root CA certificates.

Please never manually edit the files stored in this directory,
because your changes will be lost and the files automatically overwritten,
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates,
please rather install them in the respective subdirectory below the
/usr/share/pki/ca-trust-source/
or /etc/pki/ca-trust/source/
directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains
a CA certificate bundle in the java keystore file format.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains
CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format,
as described in the x509(1) manual page.
File ca-bundle.trust.crt contains the full set of all trusted
or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains
CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format,

as described in the x509(1) manual page.
Distrust information cannot be represented in this file format,
and distrusted
certificates are missing from these files.
File `tls-ca-bundle.pem` contains CA certificates
trusted for TLS server authentication.
File `email-ca-bundle.pem` contains CA certificates
trusted for E-Mail protection.
File `objsign-ca-bundle.pem` contains CA certificates
trusted for code signing.

COMMANDS

(absent/empty command)::

Same as the `*extract*` command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

`*extract*::`

Instruct `update-ca-trust` to scan the `<<sourceconf,SOURCE CONFIGURATION>>` and produce updated versions of the consolidated configuration files stored below the `/etc/pki/ca-trust/extracted` directory hierarchy.

FILES

`/etc/pki/tls/certs/ca-bundle.crt::`

Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple BEGIN/END CERTIFICATE file format, without distrust information.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/tls/certs/ca-bundle.trust.crt::`

Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file format, which includes trust (and/or distrust) flags specific to certificate usage.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/java/cacerts::`

Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/usr/share/pki/ca-trust-source::`

Contains multiple, low priority source configuration files as explained in section `<<sourceconf,SOURCE CONFIGURATION>>`. Please pay attention to the specific meanings of the respective subdirectories.

`/etc/pki/ca-trust/source::`

Contains

multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::

Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten.

See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR

Written by Kai Engert and Stef Walter.

Found in path(s):

* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/update-ca-trust.8.txt

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1.316 netty-codec-http 4.1.82.Final

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// <https://tools.ietf.org/html/rfc7540#section-8.1.2.2> makes a special exception for TE

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* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java

*

/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/Http2StreamFrame.java

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* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java

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*

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/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersFrame.java

* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java

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jar/io/netty/handler/codec/http2/Http2PingFrame.java

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jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java

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jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/HpackHeaderField.java
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jar/io/netty/handler/codec/http2/HpackUtil.java
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jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
*
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jar/io/netty/handler/codec/http2/package-info.java
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* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java
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* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java

* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/Http2FlowController.java

* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/Http2LifecycleManager.java

* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java

* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java

*

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/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameTypes.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
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jar/io/netty/handler/codec/http2/Http2FrameWriter.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
*
/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/Http2Flags.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/Http2CodecUtil.java
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jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
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jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
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*
/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
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* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/CharSequenceMap.java
*
```

```
/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
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* /opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-
```

jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java

*

/opt/cola/permits/1434218496_1664996134.032397/0/netty-codec-http2-4-1-82-final-sources-

jar/io/netty/handler/codec/http2/Http2UnknownFrame.java

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jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java

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jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java

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 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/StyleFactory.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/NfaMatcher.java
 *
 /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/NonBlockingInputStream.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/keymap/BindingReader.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/MaskingCallback.java
 * /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/StyleSource.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/NonBlockingInputStreamImpl.java

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#

auto_left_margin, bw, bw

auto_right_margin, am, am

back_color_erase, bce, ut

can_change, ccc, cc

ceol_standout_glitch, xhp, xs

col_addr_glitch, xhpa, YA

cpi_changes_res, cpix, YF

cr_cancels_micro_mode, crxm, YB

dest_tabs_magic_smso, xt, xt

eat_newline_glitch, xenl, xn

erase_overstrike, eo, eo

generic_type, gn, gn

hard_copy, hc, hc

hard_cursor, chts, HC

has_meta_key, km, km

has_print_wheel, daisy, YC

has_status_line, hs, hs

hue_lightness_saturation, hls, hl

insert_null_glitch, in, in

lpi_changes_res, lpix, YG

memory_above, da, da

memory_below, db, db

move_insert_mode, mir, mi

move_standout_mode, msgr, ms

needs_xon_xoff, nxon, nx

no_esc_ctlc, xsb, xb

no_pad_char, npc,

NP

non_dest_scroll_region, ndscr, ND

non_rev_rmcup, nrrmc, NR

over_strike, os, os

prtr_silent, mc5i, 5i

row_addr_glitch, xvpa, YD

semi_auto_right_margin, sam, YE

status_line_esc_ok, eslok, es

tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
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output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct

clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, e11, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so

enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4

key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_ctab, kctab, kt
key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO

key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
key_f44, kf44, FY
key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48, Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kill, kA
key_left, kcub1, kI
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN

key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kpri, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
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key_sexit, kEXT, *9
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key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
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key_sright, kRIT, %i
key_sresume, kRES, %j
key_ssav, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8

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keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
 mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px

plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu

user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colorm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
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smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
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get_mouse, getm, Gm
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pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhl, Xh

enter_left_hl_mode, elhlm, XI
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

Found in path(s):

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utills/capabilities.txt

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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/ConnectionListener.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/ConnectionFilter.java

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#

black

maroon

green

olive

navy

purple

teal

silver

grey

red

lime

yellow

blue

fuchsia

aqua

white

grey0

navyblue

darkblue

blue3

blue3a

blue1

darkgreen

deepskyblue4

deepskyblue4a

deepskyblue4b

dodgerblue3

dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
darkred
deeppink4
purple4
purple4a
purple3
blueviolet
orange4
grey37
mediumpurple4
slateblue3
slateblue3a
royalblue1
chartreuse4
darkseagreen4
paleturquoise4
steelblue
steelblue3
cornflowerblue
chartreuse3
darkseagreen4a
cadetblue
cadetbluea
skyblue3

steelblue1
chartreuse3a
palegreen3
seagreen3
aquamarine3
mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
darkslategray2
darkreda
deeppink4a
darkmagenta
darkmagentaa
darkviolet
purplea
orange4a
lightpink4
plum4
mediumpurple3
mediumpurple3a
slateblue1
yellow4
wheat4
grey53
lightslategrey
mediumpurple
lightslateblue
yellow4a
darkolivegreen3
darkseagreen
lightskyblue3
lightskyblue3a
skyblue2
chartreuse2a
darkolivegreen3a
palegreen3a
darkseagreen3
darkslategray3
skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a

darkslategray1
red3
deeppink4b
mediumvioletred
magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
rosybrown
grey63
mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
lightsteelblue3
lightsteelblue
yellow3
darkolivegreen3b
darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
darkseagreen2a
darkseagreen1
paleturquoise1
red3a
deeppink3
deeppink3a
magenta3a
magenta3b
magenta2
darkorange3a
indianreda
hotpink3a
hotpink2
orchid

mediumorchid1
orange3
lightsalmon3a
lightpink3
pink3
plum3
violet
gold3a
lightgoldenrod3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
lightyellow3
grey84
lightsteelblue1
yellow2
darkolivegreen1
darkolivegreen1a
darkseagreen1a
honeydew2
lightcyan1
red1
deeppink2
deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
hotpink
hotpinka
mediumorchid1a
darkorange
salmon1
lightcoral
palevioletred1
orchid2
orchid1
orange1
sandybrown
lightsalmon1
lightpink1
pink1

plum1
gold1
lightgoldenrod2a
lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
grey11
grey15
grey19
grey23
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grey42
grey46
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grey89
grey93

Found

in path(s):

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/colors.txt

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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Reference.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Expander.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/Pty.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/PackageInfo.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/CursorSupport.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/completer/NullCompleter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/Levenshtein.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/completer/AggregateCompleter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/history/PackageInfo.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/KeyMap.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/OSUtils.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/completer/PackageInfo.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/MouseEvent.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/Package-

info.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/Attributes.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/MouseSupport.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/ExecPty.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/AttributedString.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/ShutdownHooks.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/AbstractPosixTerminal.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/DiffHelper.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/WCWidth.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/DefaultExpander.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/Source.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/ExecHelper.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Macro.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/InputStreamReader.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Binding.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/UndoTree.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/package-info.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/ClosedException.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/AutosuggestionWidgets.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/Signals.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CommandInput.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/AbstractCommandRegistry.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/Widgets.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/AutopairWidgets.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CommandRegistry.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Nano.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CommandMethods.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/JnaSupport.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/TerminalBuilder.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/Builtins.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/Display.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/Log.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/DefaultParser.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Parser.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/ConsoleOptionGetter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/JlineCommandRegistry.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/CompletionMatcher.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CmdLine.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/EndOfFileException.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/TTop.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/ConsoleEngine.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/ColorPalette.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CmdDesc.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/JansiSupport.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/ScriptEngine.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Less.java
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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-console/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml

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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/ConfigurationPath.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Tmux.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/InfoCmp.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/Highlighter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/Editor.java
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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/ConsoleEngineImpl.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/PrintAboveWriter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Commands.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/history/DefaultHistory.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/ArgDesc.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/DefaultHighlighter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/Printer.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/TailTipWidgets.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Styles.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/LineReader.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/SystemRegistryImpl.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/AttributedCharSequence.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Completers.java

*

/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractTerminal.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/SystemHighlighter.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/SystemRegistry.java

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/AttributedStyle.java

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Found in path(s):

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/SyntaxError.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/EOFError.java

1.318 metrics-jvm 4.2.12

1.318.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jvm

Build-Jdk-Spec: 11

Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: JVM Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.jvm

Bundle-Version: 4.2.12

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.2.12"

Implementation-Title: JVM Integration for Metrics

Implementation-Version: 4.2.12

Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;resolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.management

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1434973136_1665051951.2958791/0/metrics-jvm-4-2-12-jar/META-INF/MANIFEST.MF

1.319 metrics-health-checks 4.2.12

1.319.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.health

Build-Jdk-Spec: 11

Bundle-Description: An addition to Metrics which provides the ability to run application-specific health checks, allowing you to check your application's health in production.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Health Checks

Bundle-SymbolicName: io.dropwizard.metrics.healthchecks

Bundle-Version: 4.2.12

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.health,com.codahale.metrics.jvm";version="4.2.12",com.codahale.metrics.health.annotation;version="4.2.12",com.codahale.metrics.health;uses:="com.codahale.metrics";version="4.2.12"

Implementation-Title: Metrics Health Checks

Implementation-Version: 4.2.12

Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.health,com.codahale.metrics.health.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1434973188_1665051949.7440183/0/metrics-healthchecks-4-2-12-jar/META-INF/MANIFEST.MF

1.320 Iz4 1.2.12

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This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

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1.322 metrics-annotation 4.2.12

1.322.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.annotation

Build-Jdk-Spec: 11

Bundle-Description: A dependency-less package of just the annotations used by other Metrics modules.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.2.12
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.annotation;version="4.2.12"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.2.12
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1435925682_1665131991.1248417/0/metrics-annotation-4-2-12-jar/META-INF/MANIFEST.MF

1.323 expat 2.1.0-15.el7_9

1.323.1 Available under license :

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1.324 postgresql 42.4.1

1.324.1 Available under license :

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1.325 metrics-jetty 4.2.12

1.325.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jetty9

Build-Jdk-Spec: 11

Bundle-Description: A set of extensions for Jetty 9.3 and higher which provide instrumentation of thread pools, connector metrics, and application latency and utilization.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jetty 9.3 and higher

Bundle-SymbolicName: io.dropwizard.metrics.jetty9

Bundle-Version: 4.2.12

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metrics, javax.servlet, javax.servlet.http, org.eclipse.jetty.io, org.eclipse.jetty.server, org.eclipse.jetty.server.handler, org.eclipse.jetty.util.annotation, org.eclipse.jetty.util.component, org.eclipse.jetty.util.thr

ead";version="4.2.12"

Implementation-Title: Metrics Integration for Jetty 9.3 and higher

Implementation-Version:

4.2.12

Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.http;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",org.eclipse.jetty.http;version="[9.4,10)",org.eclipse.jetty.io;version="[9.4,10)",org.eclipse.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;version="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jetty.util.thread;version="[9.4,10)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1437913149_1665412945.7540498/0/metrics-jetty9-4-2-12-jar/META-INF/MANIFEST.MF

1.326 metrics-json 4.2.12

1.326.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.json

Build-Jdk-Spec: 11

Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Jackson Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.json

Bundle-Version: 4.2.12

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics,com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4.2.12"

Implementation-Title: Jackson Integration for Metrics

Implementation-Version: 4.2.12

Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.health;version="[4.2,5)";resolution:=optional,com.fasterxml.jackson.core;version="[2.12,3)",com.fasterxml.jackson.databind;version="[2.12,3)",com.fasterxml.jackson.databind.module;version="[2.12,3)",com.fasterxml.jackson.databind.ser;version="[2.12,3)",com.fasterxml.jackson.databind.ser.std;version="[2.12,3)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1437913142_1665412927.3404572/0/metrics-json-4-2-12-jar/META-INF/MANIFEST.MF

1.327 metrics-jmx 4.2.12

1.327.1 Available under license :

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

Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jmx

Build-Jdk-Spec: 11

Bundle-Description: A set of classes which allow you to report metrics via JMX.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration with JMX

Bundle-SymbolicName: io.dropwizard.metrics.jmx

Bundle-Version: 4.2.12

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.2.12"

Implementation-Title: Metrics Integration with JMX

Implementation-Version: 4.2.12

Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.2,5)",javax.management

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1437913191_1665412996.190549/0/metrics-jmx-4-2-12-jar/META-INF/MANIFEST.MF

1.328 metrics-logback 4.2.12

1.328.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.logback

Build-Jdk-Spec: 11

Bundle-Description: An instrumented appender for Logback.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Logback

Bundle-SymbolicName: io.dropwizard.metrics.logback

Bundle-Version: 4.2.12

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.classic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.12"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.2.12
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logback.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)",com.codahale.metrics;version="[4.2,5)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):

*

/opt/cola/permits/1437913135_1665412964.3274512/0/metrics-logback-4-2-12-jar/META-INF/MANIFEST.MF

1.329 metrics-jersey2 4.2.12

1.329.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk-Spec: 11
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jersey 2.x
Bundle-SymbolicName: io.dropwizard.metrics.jersey2
Bundle-Version: 4.2.12
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.2.12"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-Version: 4.2.12
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.annotation;version="[4.2,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.36,3)",org.glassfish.jersey.server.model;version="[2.36,3)",org.glassfish.jersey.server.monitoring;version="[2.36,3)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1437913170_1665412973.240013/0/metrics-jersey2-4-2-12-jar/META-INF/MANIFEST.MF

1.330 metrics-servlets 4.2.12

1.330.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets
Build-Jdk-Spec: 11
Bundle-Description: A set of utility servlets for Metrics, allowing you to expose valuable information about your production environment.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.2.12
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metrics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.servlet,javax.servlet.http";version="4.2.12"
Implementation-Title: Metrics Utility Servlets
Implementation-Version: 4.2.12
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.http;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.health;version="[4.2,5)",com.codahale.metrics.json;version="[4.2,5)",com.codahale.metrics.jvm;version="[4.2,5)",com.fasterxml.jackson.databind;version="[2.12,3)",com.fasterxml.jackson.databind.util;version="[2.12,3)",com.papertrail.profiler;version="[1.1,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1437913163_1665413003.420422/0/metrics-servlets-4-2-12-jar/META-INF/MANIFEST.MF

1.331 protobuf-java 3.19.6

1.331.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1664485905970
Build-Jdk: 1.8.0_181-google-v7
Built-By: mkruskal
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible for

mat.

Bundle-DocURL: <https://developers.google.com/protocol-buffers/>
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.19.6
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.19.6"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/META-INF/MANIFEST.MF
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Found in path(s):

* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/struct.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/wrappers.proto
*
/opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/type.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/empty.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/any.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/duration.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/source_context.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/api.proto

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.336 scala 2.12.17.v20220824-030039-VFINAL-45183fa

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |

| | | | | |
|-------|-------|------|-----|-----|
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
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| 2.5.1 | 2.5 | 2007 | PSF | yes |
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| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
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1.338 guice-persist 4.2.2

1.338.1 Available under license :

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1.339 metrics-httpasyncclient 4.0.5

1.339.1 Available under license :

Apache-2.0

1.340 device-mapper-multipath 0.4.9-

136.el7_9

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Ty Coon, President of Vice

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1.341 jctools-core 4.0.1

1.341.1 Available under license :

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

Manifest-Version: 1.0
Bnd-LastModified: 1662622707903
Build-Jdk-Spec: 11
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.1
Created-By: Apache Maven Bundle Plugin 5.1.6
Export-Package: org.jctools.maps;version="4.0.1",org.jctools.util;uses
:="sun.misc";version="4.0.1",org.jctools.queues;version="4.0.1",org.j
ctools.queues.atomic;uses:="org.jctools.queues";version="4.0.1",org.j
ctools.queues.unpadded;uses:="org.jctools.queues";version="4.0.1",org
.jctools.counters;version="4.0.1"
Import-Package: sun.misc;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-6.2.0.202202251641

Found in path(s):

* /opt/cola/permits/1500645298_1670406227.9308958/0/jctools-core-4-0-1-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1500645298_1670406227.9308958/0/jctools-core-4-0-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

1.342 cloudevents-kafka 2.1.1

1.342.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/META-INF/maven/io.cloudevents/cloudevents-kafka/pom.xml

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```

Found in path(s):

```
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/impl/KafkaHeaders.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/impl/KafkaSerializerMessageWriterImpl.java
*
/opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/CloudEventDeserializer.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/KafkaMessageFactory.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/CloudEventMessageSerializer.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/CloudEventMessageDeserializer.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/impl/KafkaBinaryMessageReaderImpl.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/CloudEventSerializer.java
* /opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/impl/KafkaProducerMessageWriterImpl.java
*
/opt/cola/permits/1508291111_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-
jar/io/cloudevents/kafka/impl/BaseKafkaMessageWriterImpl.java
```

1.343 cloudevents-api 2.1.1

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Found in path(s):

* /opt/cola/permits/1508291066_1670974985.798763/0/cloudevents-api-2-1-1-2-jar/META-INF/maven/io.cloudevents/cloudevents-api/pom.xml

1.344 cloudevents-core 2.1.1

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```

Found in path(s):

* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/CloudEventUtils.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/extensions/DistributedTracingExtension.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/format/EventFormat.java
*
/opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/impl/BaseBinaryMessageReader.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-

```

jar/io/cloudevents/core/message/impl/MessageUtils.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v03/V1ToV03AttributesConverter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/impl/CloudEventReaderAdapter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/impl/BaseStructuredMessageReader.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v03/CloudEventV03.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/Encoding.java
*
/opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/format/EventSerializationException.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v1/CloudEventBuilder.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v1/V03ToV1AttributesConverter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/extensions/DatarefExtension.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/impl/BaseCloudEventBuilder.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/extensions/impl/ExtensionUtils.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/builder/CloudEventBuilder.java
*
/opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/provider/ExtensionProvider.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/MessageReader.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/impl/GenericStructuredMessageReader.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/StructuredMessageWriter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v1/CloudEventV1.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/MessageWriter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/impl/BaseCloudEvent.java
*
/opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/StructuredMessageReader.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/provider/EventFormatProvider.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v03/CloudEventBuilder.java

```

```
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/format/EventDeserializationException.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/impl/CloudEventContextReaderAdapter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/impl/BaseGenericBinaryMessageReaderImpl.java
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Found in path(s):

```
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/META-
INF/maven/io.cloudevents/cloudevents-core/pom.xml
```

1.345 scala-collection-compat_2.12 2.6.0

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```
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```

* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/jdk/CollectionConverters.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/util/Using.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/collection/compat/BuildFrom.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/collection/compat/CompatImpl.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/collection/compat/immutable/LazyList.scala
*
/opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/collection/compat/PackageShared.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/annotation/unused.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/collection/compat/package.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/util/ChainingOps.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/util/control/compat/ControlThrowable.scala
* /opt/cola/permits/1512511120_1671414488.3805737/0/scala-collection-compat-2-12-2-6-0-sources-1-
jar/scala/collection/compat/immutable/ArraySeq.scala

```

1.346 rocksdbjni 7.1.2

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```

* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/RocksMutableObject.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractNativeReference.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Holder.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractImmutableNativeReference.java

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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RateLimiter.java

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```
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/VectorMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractTableFilter.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableOptionValue.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HashLinkedListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractMutableOptions.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TableProperties.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/util/Environment.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableOptionKey.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SizeApproximationFlag.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionStopStyle.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HashSkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableDBOptionsInterface.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFilter.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TransactionLogIterator.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/NativeLibraryLoader.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/InfoLogLevel.java
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Found in path(s):

```
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StatsLevel.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ThreadStatus.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
```

jar/org/rocksdb/BlockBasedTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HistogramType.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/RocksDBException.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TableFormatConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionOptions.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/ExternalFileIngestionInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionJobInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/OptimisticTransactionOptions.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksObject.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/SstFileWriter.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Statistics.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractCompactionFilterFactory.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/DbPath.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/StatisticsCollectorCallback.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StateType.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TxnDBWritePolicy.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/PersistentCache.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/WalProcessingOption.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Experimental.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Logger.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/ReusedSynchronisationType.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/DBOptionsInterface.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractTransactionNotifier.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ClockCache.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/ColumnFamilyMetaData.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/WALRecoveryMode.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/WriteBatchInterface.java

* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
 jar/org/rocksdb/NativeComparatorWrapper.java
 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ThreadType.java
 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TtlDB.java
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/MemoryUtil.java
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Range.java
 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksDB.java
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jar/org/rocksdb/CompactionPriority.java
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WriteBatch.java
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TraceWriter.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFileCreationBriefInfo.java
 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/OperationType.java
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 * /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/MutableColumnFamilyOptions.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Checkpoint.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Cache.java
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jar/org/rocksdb/MergeOperator.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/CassandraValueMergeOperator.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/CassandraCompactionFilter.java
```

1.347 netty-transport-classes-epoll

4.1.86.Final

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```
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-  
jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml
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* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java

* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

*

/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

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*/

/**

* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.

* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

* Allowing them being read would mean anyone with access to the channel could get them.

*/

/**

* Set the { @code TCP_QUICKACK } option on the socket.

* See [TCP_QUICKACK](https://linux.die.net/man/7/tcp)

* for more details.

*/

Found in path(s):

* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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 */
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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
```

Found in path(s):

```
*/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
*
/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
*
/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
*
/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
*
/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

1.348 netty-transport-classes-kqueue

4.1.86.Final

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* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java
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* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
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* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueue.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
*
/opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
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* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java
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*
/opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
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*
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1.349 asm 9.4

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* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/TypeReference.java

* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Symbol.java

* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java

* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Type.java

* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/MethodVisitor.java

* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Frame.java

```

*
/opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/ClassTooLargeException.java
*
/opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/RecordComponentWriter.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/Handler.java
*
/opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/ClassReader.java
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```
* /opt/cola/permits/1519295482_1671725028.6043975/0/asm-9-4-sources-1-
jar/org/objectweb/asm/signature/SignatureVisitor.java
```

1.350 protobuf-java 3.21.8

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```
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/google/protobuf/api.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-
jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/google/protobuf/duration.proto
*
/opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-
jar/google/protobuf/source_context.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-
jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/google/protobuf/type.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/google/protobuf/empty.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-
jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-
jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-
jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/google/protobuf/struct.proto
* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/google/protobuf/any.proto
```

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1666122264688
Build-Jdk: 1.8.0_181-google-v7
Built-By: mkruskal
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.21.8
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.21.8"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.21,4)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1523477593_1672836106.4552155/0/protobuf-java-3-21-8-2-jar/META-INF/MANIFEST.MF

1.351 nss-softokn-freebl 3.79.0-4.el7_9

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the version number 2.1.]

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```
# The main CI of Hibernate ORM is https://ci.hibernate.org/job/hibernate-orm-5.6-h2/.
# However, Hibernate ORM builds run on GitHub actions regularly
# to check that it still works and can be used in GitHub forks.
# See https://docs.github.com/en/free-pro-team@latest/actions
# for more information about GitHub actions.
```

name: Hibernate ORM build

on:

push:

branches:

- '5.6'

pull_request:

branches:

- '5.6'

```
# See https://github.com/hibernate/hibernate-orm/pull/4615 for a description of the behavior we're getting.
```

concurrency:

```
# Consider that two builds are in the same concurrency group (cannot run concurrently)
```

```
# if they use the same workflow and are about the same branch ("ref") or pull request.
```

```
group: "workflow = ${ github.workflow }, ref = ${ github.event.ref }, pr = ${ github.event.pull_request.id }"
```

```
# Cancel previous builds in the same concurrency group even if they are in process
```

```
# for pull requests or pushes to forks (not the upstream repository).
```

```
cancel-in-progress: ${ github.event_name == 'pull_request' || github.repository != 'hibernate/hibernate-orm' }
```

```

jobs:
  build:
    name: Java 8
    runs-on: ubuntu-latest
    strategy:
      fail-fast: false
    matrix:
      include:
        - rdbms: h2
#       - rdbms: hsqldb
        - rdbms: derby
        - rdbms: mysql8
        - rdbms: mariadb
        - rdbms: postgresql_9_5
        - rdbms: postgresql_13
        - rdbms: oracle
        - rdbms: db2
        - rdbms: mssql
        - rdbms: sybase
# Running with HANA requires at least 8GB memory just for the database, which we don't have on GH Actions
runners
#       - rdbms: hana
    steps:
      - uses: actions/checkout@v2
        with:
          persist-credentials: false
      - name: Reclaim Disk Space
        run: .github/ci-prerequisites.sh
      - name: Start database
        env:
          RDBMS: ${ matrix.rdbms }
        run: ci/database-start.sh
      - name: Set up Java 8

    uses: actions/setup-java@v1
      with:
        java-version: 1.8
      - name: Get year/month for cache key
        id: get-date
        run: |
          echo "::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")"
        shell: bash
      - name: Cache Maven local repository
        uses: actions/cache@v2
        id: cache-maven
        with:
          path: |
            ~/.m2/repository

```

```

~/.gradle/caches/
~/.gradle/wrapper/
# refresh cache every month to avoid unlimited growth
key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
- name: Run build script
env:
  RDBMS: ${{ matrix.rdbms }}
run: ./ci/build-github.sh
shell: bash
- name: Upload test reports (if Gradle failed)
uses: actions/upload-artifact@v2
if: failure()
with:
  name: test-reports-java8-${{ matrix.rdbms }}
  path: |
    ./**/target/reports/tests/
    ./**/target/reports/checkstyle/
- name: Omit produced artifacts from build cache
run: ./ci/before-cache.sh

```

1.353 netty-transport-native-epoll 4.1.86.Final

1.353.1 Available under license :

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```

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-->

```

Found in path(s):

```

* /opt/cola/permits/1534815977_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-
jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

```

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```

/*

```


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Found in path(s):

* /opt/cola/permits/1534815977_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-jar/netty_epoll_native.c

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Found in path(s):

* /opt/cola/permits/1534815977_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-jar/netty_epoll_linuxsocket.c

* /opt/cola/permits/1534815977_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-jar/netty_epoll_linuxsocket.h

1.354 netty-transport-native-kqueue

4.1.86.Final

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 * under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_eventarray.h
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_eventarray.c
*
/opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_native.c
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_bsdsocket.c
```

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```

Found in path(s):

* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-kqueue/pom.xml

1.355 scala-java8-compat_2.12 1.0.2

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```
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 *
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Found in path(s):

```
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/wrappers/IteratorPrimitiveIntWrapper.java
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsBitSet.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/StreamConverters.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsWithTail.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/SpliteratorConverters.scala
*
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/AccumulatorConverters.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsLikeTrieIterator.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/MakesSteppers.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsImmHashMap.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/runtime/LambdaDeserializer.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsLikeIterator.scala
*
```

/opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/wrappers/IteratorPrimitiveDoubleWrapper.java
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/Accumulates.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsFlatHashTable.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsIterable.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsArray.scala
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* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/runtime/CollectionInternals.java
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/opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsHashTable.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/FutureConverters.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/PrimitiveIteratorConversions.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsLikeSliced.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsLikeImmHashMap.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsRange.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/collectionImpl/AccumulatorLike.scala
*
/opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsString.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/ScalaStreamSupport.java
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* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-jar/scala/compat/java8/converterImpl/StepsLikeGapped.scala
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* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-
jar/scala/concurrent/java8/FutureConvertersImpl.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-
jar/scala/compat/java8/collectionImpl/DoubleAccumulator.scala
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-
jar/scala/compat/java8/converterImpl/StepsIndexedSeq.scala
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jar/scala/compat/java8/collectionImpl/IntAccumulator.scala
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/opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-
jar/scala/compat/java8/wrappers/IteratorPrimitiveLongWrapper.java
* /opt/cola/permits/1538413975_1674181476.3898861/0/scala-java8-compat-2-11-1-0-2-sources-2-
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1.356 objenesis 3.2

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1.357 kerberos 1.15.1-55.el7_9

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_log.h
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_process_context.c
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lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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

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

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

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

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<xsl:stylesheet version="1.0"

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

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

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

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

<xsl:param name="text"/>

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

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

<xsl:text>
</xsl:text>

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

<xsl:if test="translate(\$rest, '	 ', '')">

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

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

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

<xsl:text>

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</xsl:text>

</xsl:variable>

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

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

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

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

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

<!--
- Local variables:
- mode: sgml
- End:
-->
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1.359 jersey-container-servlet 2.37

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signature of Ty Coon, 1 April 1989
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```

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```

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1.369 zlib 1.2.7-21.el7_9

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1.370 keyutils 1.5.8-3.el7

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```
<one line  
to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
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(at your option) any later version.
```

```
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```


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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.372 pyxattr 0.5.1-5.el7

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1.373 popt 1.13-16.el7

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1.374 python-iniparse 0.4-9.el7

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python

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| Release from | Derived | Year | Owner | GPL-compatible? (1) |
|----------------|-----------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | | | |
| 2002 | PSF | yes | | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
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| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |

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1.379 json-c 0.11-4.el7_0

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1.380 lua 5.1.4-15.el7

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1.381 ustr 1.0.4-16.el7

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This license, the Lesser General Public License, applies to some 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

the scope of this License.

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

code for the work under the terms of Section 6.

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

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

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1.383 pkg-config 0.27.1-4.el7

1.383.1 Available under license :

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[This is the first released version of the library GPL. It is
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Preamble

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

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary

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

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

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

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

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

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

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

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

a) The modified work

must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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this, 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.

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

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

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

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

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

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

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

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

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- a) Accompany the

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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.

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| |_) | | | '\
      ``Ian Fleming was a UNIX fan!
      How do I know? Well, James Bond
```

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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

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1.388 libassuan 2.1.0-3.el7

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1.390 gawk 4.0.2-4.el7_3.1

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Version 2, June 1991

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concluded that weaker conditions might promote sharing better.

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Version 3, 29 June 2007

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The

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1.391 libsepol 2.5-10.el7

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```
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1.395 python-kitchen 1.1.1-5.el7

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1.397 pcre 8.32-17.el7

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1.398 pinentry 0.8.1-17.el7

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1.404 pycurl 7.19.0-19.el7

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1.405 bzip2 1.0.6-13.el7

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

1.406 libgpg-error 1.12-3.el7

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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

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.412 classgraph 4.8.65

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1.413 swagger-integration 2.1.6

1.413.1 Available under license :

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1.414 opentelemetry-proto 0.11.0

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1.415 openssl 1.0.2k-26.el7_9

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* /opt/cola/permits/1610149726_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/internal/OpenState.java
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jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java
* /opt/cola/permits/1610149726_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java
*
/opt/cola/permits/1610149726_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/CircuitBreakerOpenException.java
No license file was found, but licenses were detected in source scan.

```

```

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*
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1610149726_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java

```

1.418 vavr 0.9.2

1.418.1 Available under license :

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```

/* _ _ _ _ _
* \ \ / / \ \ / / _/
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```

* _____/_____ _____/_____

*

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Found in path(s):

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function3.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/LinkedHashMultimap.java

*

/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction6.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/AbstractMultimap.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/BitMappedTrie.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Validation.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Option.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction1.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/CharSeq.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedRunnable.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/SortedMultimap.java

*

/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/GwtIncompatible.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/TreeMultimap.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/LinkedHashSet.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/SortedSet.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Collections.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Lazy.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/HashMultimap.java

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple0.java

```

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/ArrayType.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/Comparators.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function8.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/BitSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function7.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple7.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/API.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/control/GwtIncompatible.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/HashSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function4.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Ordered.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple6.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/LinearSeq.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Predicates.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function0.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction8.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Lambda.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Array.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple5.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Either.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple1.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/concurrent/GuardedBy.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Tree.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple8.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/Promise.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Maps.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Stream.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple2.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/MatchError.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/AbstractIterator.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function2.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/RedBlackTree.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/JavaConverters.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Seq.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/TreeMap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction7.java

```

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction4.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function1.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/PartialFunction.java
 *
 /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/GwtIncompatible.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Vector.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function5.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Iterator.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Set.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Multimaps.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/PriorityQueue.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/FutureImpl.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction5.java
 *
 /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Foldable.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Multimap.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Traversable.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedConsumer.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/IndexedSeq.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Try.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/\$.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/NotImplementedError.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/LinkedHashMap.java
 *
 /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Value.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction2.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple4.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Map.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/SortedMap.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction3.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple3.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/HashMapMappedTrie.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedPredicate.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Queue.java
 *
 /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/Future.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction0.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/TreeSet.java
 * /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/TreeSet.java

```
jar/io/vavr/collection/AbstractQueue.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/List.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/HashMap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/GwtIncompatible.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function6.java
```

1.419 resilience4j-timelimiter 0.13.1

1.419.1 Available under license :

Apache-2.0

1.420 vavr-match 0.9.2

1.420.1 Available under license :

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```
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*  \ \ / / \ \ / / _/
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*  \ \ / / \ \ / /
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```

Found in path(s):

```
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/annotation/Patterns.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/generator/ImportManager.java
*
/opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/MethodModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
```

jar/io/vavr/match/model/ParameterModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/UnapplyChecker.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/annotation/Unapply.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/ClassModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/TypeParameterModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/PatternsProcessor.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/generator/Generator.java

1.421 resilience4j-core 0.13.1

1.421.1 Available under license :

Apache-2.0

1.422 jetty-servlets 9.4.51.v20230217

1.422.1 Available under license :

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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

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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

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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1.423 jetty-continuation 9.4.51.v20230217

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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

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.424 netty-codec-socks 4.1.90.Final

1.424.1 Available under license :

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- * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
- * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
- *
 - /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
 - *
 - /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
 - * /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java

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* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
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* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
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* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
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* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-

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* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/SocksMessage.java

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/opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
```

1.425 netty-resolver 4.1.90.Final

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Found in path(s):

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-
jar/io/netty/resolver/HostsFileEntriesProvider.java
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Found in path(s):

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/AddressResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

*

/opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/InetNameResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
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```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-
jar/io/netty/resolver/HostsFileEntries.java
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-
jar/io/netty/resolver/ResolvedAddressTypes.java
```

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Found in path(s):

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/SimpleNameResolver.java
```

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/NoopAddressResolverGroup.java
```

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/NoopAddressResolver.java
```

```
*
```

```
/opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/package-info.java
```

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/NameResolver.java
```

```
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-  
jar/io/netty/resolver/AddressResolverGroup.java
```

1.426 netty-handler-proxy 4.1.90.Final

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* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java

*

/opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/package-info.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java

1.427 netty-handler 4.1.90.Final

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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```
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
*
```

/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-

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jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/LazyX509Certificate.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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*/
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```

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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java

*

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/package-info.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/TimeoutException.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/package-info.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedInput.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/LoggingHandler.java

*

/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedStream.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslHandler.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/package-info.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/package-info.java

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/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/LogLevel.java

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jar/io/netty/handler/timeout/IdleState.java

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jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

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jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

*

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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
*
  /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
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jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
```

```
jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/AsyncRunnable.java
*
/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/DuplexChannelConfig.java
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 */
 /**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
 subtypes:
 *
 * { @link
 ChannelInboundHandler } to handle inbound I/O events, and
 * { @link ChannelOutboundHandler } to handle outbound I/O operations.
 *
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 *
 * { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,
 * { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and
 * { @link ChannelDuplexHandler } to handle both inbound and outbound events
 *
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
 * object. A { @link ChannelHandler } is supposed to interact with the
 * { @link ChannelPipeline } it belongs to via a context object. Using the
 * context object, the { @link ChannelHandler } can pass events upstream or
 * downstream, modify the pipeline dynamically,
 * or store the information
 * (using { @link AttributeKey }s) which is specific to the handler.
 *
 * <h3>State management</h3>

```

*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>

```

* Because the handler instance has a state variable which is dedicated to
 * one connection, you have to create a new handler instance for each new
 * channel to avoid a race condition where an unauthenticated client can get
 * the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler(</b>);
*     }
* }
*
* </pre>

```

* <h4>Using {@link AttributeKey}s</h4>

* Although it's recommended to use member variables to store the state of a

```

* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Now that the
state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>

```

- * In the example above which used an { @link AttributeKey },
- * you might have noticed the { @code @Sharable } annotation.
- * <p>
- * If a { @link ChannelHandler } is annotated with the { @code @Sharable }
- * annotation, it means you can create an instance of the handler just once and
- * add it to one or more { @link ChannelPipeline }s multiple times without
- * a race condition.
- * <p>
- * If this annotation is not specified, you have to create
- a new handler
- * instance every time you add it to a pipeline because it has unshared state
- * such as member variables.
- * <p>
- * This annotation is provided for documentation purpose, just like
- * the JCIP annotations.
- *
- * <h3>Additional resources worth reading</h3>
- * <p>
- * Please refer to the { @link ChannelHandler }, and
- * { @link ChannelPipeline } to find out more about inbound and outbound operations,
- * what fundamental differences they have, how they flow in a pipeline, and how to handle
- * the operation in your application.
- * /

Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
*
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
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jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
*

/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
*

/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java

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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
*
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
*
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
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/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
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jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
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/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
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jar/io/netty/bootstrap/ServerBootstrap.java
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jar/io/netty/channel/FailedChannelFuture.java
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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/FileRegion.java
*
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-

jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/local/package-info.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/nio/package-info.java
*
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
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Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
*

/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelFactory.java

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Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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*/

Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
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 */
```

Found in path(s):

```
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ExtendedClosedChannelException.java
*
```

```
/opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
```

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* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/CoalescingBufferQueue.java

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Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/nio/SelectorProviderUtil.java

1.429 netty 4.1.90.Final

1.429.1 Available under license :

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 */
```

Found in path(s):

```
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/NetUtilInitializations.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/NetUtilSubstitutions.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
```

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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<groupId>org.jctools</groupId>
```

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```

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<name>Java Concurrency Tools Core Library</name>
```

```
<description>Java Concurrency Tools Core Library</description>
```

```
<packaging>bundle</packaging>
```

```
<dependencies>
```

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<dependency>
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<scope>test</scope>
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<version>${junit.version}</version>
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</dependency>

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  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
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        </includes>
      </configuration>
    </plugin>
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      <artifactId>maven-bundle-plugin</artifactId>
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        </instructions>
      </configuration>
    </plugin>
    <plugin>
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      <artifactId>maven-source-plugin</artifactId>
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          <phase>verify</phase>
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          </goals>
        </execution>
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  </plugins>
</build>

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</additionalOptions>
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</execution>
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</plugin>
</plugins>
</build>

<distributionManagement>
<repository>
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<name>jctools-jctools</name>
<url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
</repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
<license>
<name>Apache
License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
<distribution>repo</distribution>
</license>
</licenses>

<scm>
<url>https://github.com/JCTools/JCTools</url>
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>

```

```
</scm>

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found

in path(s):

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ByteProcessor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/MathUtil.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/Future.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ResourceLeakDetector.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ConcurrentSet.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ReferenceCountUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ConstantPool.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/RecyclableArrayList.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/ProgressivePromise.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/EmptyArrays.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultThreadFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultPromise.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/package-info.java
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jar/io/netty/util/concurrent/CompleteFuture.java
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jar/io/netty/util/ReferenceCounted.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/ImmediateExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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*
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jar/io/netty/util/internal/PlatformDependent0.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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```
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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*
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/ScheduledFuture.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Version.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/Promise.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ResourceLeakException.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/AppendableCharSequence.java
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- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
- *
- /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PriorityQueue.java
- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
- * /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/SuppressForbidden.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/IntSupplier.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java

*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/BooleanSupplier.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/MacAddressUtil.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/internal/PriorityQueueNode.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/AsyncMapping.java

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jar/io/netty/util/internal/Cleaner.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/internal/CleanerJava9.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/concurrent/FastThreadLocalRunnable.java

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jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/package-info.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/Hidden.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ObjectPool.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ThreadExecutorMap.java
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jar/io/netty/util/concurrent/FastThreadLocal.java
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jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
*
/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/DomainNameMapping.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ThreadDeathWatcher.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/PromiseNotifier.java
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Mapping.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/AsciiString.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ResourceLeakHint.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/NativeLibraryLoader.java
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/PromiseAggregator.java
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java

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*

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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java

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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCLinkedQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java

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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java

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*

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
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jar/io/netty/util/concurrent/SucceededFuture.java
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Timer.java
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jar/io/netty/util/CharsetUtil.java
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jar/io/netty/util/concurrent/GlobalEventExecutor.java
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jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
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jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/package-
info.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/AttributeKey.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Constant.java
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jar/io/netty/util/NetUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Timeout.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Attribute.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/FailedFuture.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
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jar/io/netty/util/DefaultAttributeMap.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/AttributeMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PlatformDependent.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/package-info.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/TimerTask.java
*
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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/HashedWheelTimer.java
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jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/InternalLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
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jar/io/netty/util/internal/ResourcesUtil.java

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io.netty.util.internal.Hidden\$NettyBlockHoundIntegration

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```

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/MessageFormatter.java

```

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/CharObjectMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/LongCollections.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/CharCollections.java

*

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/IntCollections.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/ByteObjectMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ObjectUtil.java
*

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/ByteCollections.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java

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* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/CleanerJava6.java

1.430 netty-codec 4.1.90.Final

1.430.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/GzipOptions.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/BrotliEncoder.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
```

jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-

jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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/**

* A decoder that splits the received {@link ByteBuf}s dynamically by the

* value of the length field in the message. It is particularly useful when you

* decode a binary message which has an integer header field that represents the

* length of the message body or the whole message.

*

<p>

* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so

* that it can decode any message with a length field, which is often seen in

* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.

*

* **<h3>2 bytes length field at offset 0, do not strip header</h3>**

*

* The value of the length field in this example is `<tt>12 (0x0C)</tt>` which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.

* `<pre>`

* `lengthFieldOffset = 0`

* `lengthFieldLength = 2`

* `lengthAdjustment = 0`

* `initialBytesToStrip = 0 (= do not strip header)`

*

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

* +-----+-----+ +-----+-----+

* | Length | Actual Content

|---->| Length | Actual Content |

* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |

* +-----+-----+ +-----+-----+

* `</pre>`

*

* **<h3>2 bytes length field at offset 0, strip header</h3>**

*

* Because we can get the length of the content by calling
* `{ @link ByteBuf#readableBytes() }`, you might want to strip the length
* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
* specified `<tt>2</tt>`, that is same with the length of the length field, to
* strip the first two bytes.

* `<pre>`

* `lengthFieldOffset = 0`

* `lengthFieldLength = 2`

* `lengthAdjustment = 0`

* `initialBytesToStrip = 2 (= the length of the Length field)`

*

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

* +-----+-----+ +-----+

* | Length | Actual Content |---->| Actual Content |

* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |

* +-----+-----+ +-----+

* `</pre>`

*

* **<h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>**

*

* In most cases, the length field represents the length of the message body

* only, as shown in the previous examples. However, in some protocols, the
 * length field represents the length of the whole message, including the
 * message header. In such a case, we specify a non-zero
 * `<tt>lengthAdjustment</tt>`. Because the length value in this example message
 * is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
 * as `<tt>lengthAdjustment</tt>` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
```

* `<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>`

* The following message is a simple variation of the first example. An extra
 * header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
 * again because the decoder always takes the length of the prepended data into
 * account during frame length calculation.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
```

```
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
```

* `<h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>`

* This is an advanced example that shows the case where there is an extra
 * header between the length field and the message body. You have to specify a
 * positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
 * header into the frame length calculation.

```
* <pre>
* lengthFieldOffset = 0
```

```

* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
LEN)

```

```

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.

```

* <pre>

```

```

* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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/*
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

```

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/CodecOutputList.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DateFormatter.java

*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/HeadersUtils.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java

*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/EncoderUtil.java

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*/

/**

* Enumeration of supported Base64 dialects.

* <p>

* The internal lookup tables in this class has been derived from

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* Base64 Encoder/Decoder.

*/

Found in path(s):

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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image/io.netty.netty-codec/native-image.properties

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jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java

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*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java

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*

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageAggregator.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java

*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
*
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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DecoderException.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-

jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
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/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
*
/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
*
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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java

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/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java

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* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/EncoderException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

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jar/io/netty/handler/codec/DefaultHeaders.java  
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-  
jar/io/netty/handler/codec/Headers.java  
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java
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jar/io/netty/handler/codec/DefaultHeadersImpl.java  
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-  
jar/io/netty/handler/codec/ValueConverter.java  
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-  
jar/io/netty/handler/codec/CharSequenceValueConverter.java
```

1.431 netty-transport-native-unix-common

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* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
*
/opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_buffer.h
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/Buffer.java

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* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

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*
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_errors.c
*
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* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_socket.h
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
*

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*
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* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
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* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java
*
/opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java
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* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

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Eclipse

The following artifacts are EPL.

- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- * org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javac.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

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

Assorted

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1.433 jetty 9.4.51.v20230217

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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- org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.434 nss-tools 3.79.0-5.el7_9

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1.437 snake-yaml 2.0

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* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
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/opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
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* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
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/opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
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* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
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/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
* source-code.biz/base64coder/java</a><br>
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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*/

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Found in path(s):

* /opt/cola/permits/1641306810_1681942578.2485716/0/snakeyaml-2-0-sources-3-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

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1.438 jetty-security 9.4.51.v20230217

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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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

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

Assorted

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1.439 zstd 1.4.9

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1.440 openjdk-jre 11.0.19u7

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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This is the Debian prepackaged version of "unzip", Info-Zip's fast, portable, zipfile decompression utility.

This package is currently maintained by Santiago Vila <sanvila@debian.org> and built from sources obtained from:

<ftp://ftp.info-zip.org/pub/infozip/src/unzip60.tgz>

The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution, plus several miscellaneous fixes as reflected in the Debian changelog.

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Upstream-Name: xxhash

Source: <https://github.com/Cyan4973/xxHash>

Comment: The library files `xxhash.c` and `xxhash.h` are BSD licensed.

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Upstream-Name: GnuPG - The GNU Privacy Guard (modern version)

Upstream-Contact: GnuPG development mailing list <gnupg-devel@gnupg.org>

Source: <https://gnupg.org/download/>

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This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:

- * added Debian GNU/Linux package maintenance system files
- * at times, bug fixes awaiting inclusion in the upstream source

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Source: <https://www.sqlite.org/cgi/src/dir?ci=trunk>

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Upstream-Name: ncurses

Upstream-Contact: bug-ncurses@gnu.org

Thomas Dickey <dickey@his.com>

Source: <https://invisible-mirror.net/archives/ncurses/>

Files: *

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Files: install-sh

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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1992 Branko Lankester

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Anthony Green <green@redhat.com>

GCC developers

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This package was put together by Klee Dienes <klee@debian.org> from sources from `ftp.python.org:/pub/python`, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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

In May 2000, Guido and the Python core development team moved to

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | | | |
| | 1991-1995 | CWI | | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
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| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | | |
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| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |

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Upstream-Name: libnsl

Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>

Source: <https://github.com/thkukuk/libnsl>

Files: debian/*

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Files: AUTHORS

configure.ac

config.h.in

libnsl.pc.in

Makefile.am

NEWS

README

src/Makefile.am

src/do_ypcall.c

src/internal.h

src/libnsl.map

src/nisplus/nis_error.c

src/taddr2host.c

src/taddr2ipstr.c

src/taddr2port.c

src/yp_first.c

src/yp_get_default_domain.c

src/yp_maplist.c

src/yp_master.c

src/yp_match.c

src/yp_next.c

src/yp_order.c

src/ypbinderr_string.c

src/yperr_string.c

src/ypprot_err.c

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Files: src/libc-lock.h

- src/nisplus/nis_add.c
- src/nisplus/nis_addmember.c
- src/nisplus/nis_call.c
- src/nisplus/nis_callback.c
- src/nisplus/nis_checkpoint.c
- src/nisplus/nis_clone_dir.c
- src/nisplus/nis_clone_obj.c
- src/nisplus/nis_clone_res.c
- src/nisplus/nis_creategroup.c
- src/nisplus/nis_defaults.c
- src/nisplus/nis_destroygroup.c
- src/nisplus/nis_domain_of.c
- src/nisplus/nis_domain_of_r.c
- src/nisplus/nis_file.c
- src/nisplus/nis_findserv.c
- src/nisplus/nis_free.c
- src/nisplus/nis_getservlist.c
- src/nisplus/nis_hash.c
- src/nisplus/nis_intern.h
- src/nisplus/nis_ismember.c
- src/nisplus/nis_local_names.c
- src/nisplus/nis_lookup.c
- src/nisplus/nis_mkdir.c
- src/nisplus/nis_modify.c
- src/nisplus/nis_ping.c
- src/nisplus/nis_print.c
- src/nisplus/nis_print_group_entry.c
- src/nisplus/nis_remove.c
- src/nisplus/nis_removemember.c
- src/nisplus/nis_rmdir.c
- src/nisplus/nis_server.c
- src/nisplus/nis_subr.c
- src/nisplus/nis_table.c
- src/nisplus/nis_util.c
- src/nisplus/nis_verifygroup.c
- src/nisplus/nis_xdr.c
- src/nisplus/nis_xdr.h
- src/rpcsvc/nislib.h
- src/rpcsvc/ypclnt.h

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- src/rpcsvc/nis_callback.x
- src/rpcsvc/nis_object.x
- src/rpcsvc/nis_tags.h
- src/rpcsvc/nis.h

src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
src/rpcsvc/yp_prot.h
src/rpcsvc/yppasswd.h
src/rpcsvc/yppasswd.x
src/rpcsvc/ypupd.h
src/yp_xdr.c

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src/Makefile.in

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config.guess

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depcomp

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test-driver

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- m4/host-cpu-c-abi.m4
- m4/iconv.m4
- m4/intlmacosx.m4
- m4/lib-ld.m4
- m4/lib-link.m4
- m4/lib-prefix.m4
- m4/libtool.m4
- m4/ltoptions.m4
- m4/ltsugar.m4
- m4/ltversion.m4
- m4/lt~obsolete.m4
- m4/nls.m4
- m4/po.m4
- m4/progtest.m4

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- po/Makevars
- po/POTFILES.in
- po/Rules-quot
- po/boldquot.sed
- po/en@boldquot.header
- po/en@quot.header
- po/insert-header.sin
- po/libnsl.pot
- po/quot.sed
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- po/stamp-po

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Files:

dist/autouse/*

dist/base/*

dist/constant/*

dist/Devel-SelfStubber/*

dist/Dumpvalue/*

dist/Env/*

cpan/ExtUtils-Manifest/*

dist/I18N-Collate/*

dist/Safe/*

ext/Fcntl/*

ext/FileCache/*

ext/GDBM_File/*

ext/IPC-Open3/*

ext/NDBM_File/*

ext/ODBM_File/*

ext/Opcode/*

ext/PerlIO-encoding/*

ext/PerlIO-scalar/*

ext/PerlIO-via/*

ext/POSIX/*

ext/re/*

cpan/Socket/*

ext/Sys-Hostname/*

ext/Tie-Hash-NamedCapture/*

ext/Tie-Memoize/*

ext/VMS-DCLsym/*

ext/VMS-Stdio/*

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dist/SelfLoader/*

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Files:

cpan/autodie/lib/autodie/exception/system.pm

cpan/autodie/lib/autodie/exception.pm

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cpan/autodie/lib/autodie/Scope/GuardStack.pm

cpan/autodie/lib/autodie/Util.pm

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Note that the files bzip2.c, bzip2recover.c, bzlib.c & decompress.c have been modified to allow them to build with a C++ compiler.

The file bzip2-src/bzip2-cpp.patch contains the patch that was used to modify the original source.

but the patch has apparently been filtered out when including the software into the Perl core distribution.

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Files: cpan/Compress-Raw-Zlib/zlib-src/*

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cpan/CPAN/scripts/cpan

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Files:

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_0.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_1.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_3.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_4.pod

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cpan/Module-Load/*

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Files:

cpan/Locale-Maketext-Simple/t/po_with_i_default/i_default.po

cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po

cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po

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Files:

cpan/podlators/t/data/snippets/README
cpan/podlators/t/data/basic.cap
cpan/podlators/t/data/basic.clr
cpan/podlators/t/data/basic.man
cpan/podlators/t/data/basic.ovr
cpan/podlators/t/data/basic.pod
cpan/podlators/t/data/basic.txt

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Files:

cpan/podlators/t/docs/pod-spelling.t
cpan/podlators/t/docs/pod.t
cpan/podlators/t/docs/synopsis.t
cpan/podlators/t/lib/Test/RRA.pm
cpan/podlators/t/lib/Test/RRA/Config.pm
cpan/podlators/t/style/minimum-version.t
cpan/podlators/t/style/module-version.t
cpan/podlators/t/style/strict.t

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cpan/podlators/t/lib/Test/RRA/ModuleVersion.pm
cpan/podlators/t/docs/spdx-license.t
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Files:

cpan/bignum/*

cpan/Tie-RefHash/*

cpan/Win32API-File/*

cpan/ExtUtils-Install/*

cpan/Math-BigInt/*

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Wall and Raphael Manfredi. The 'dist/' subdirectory is unmodified

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From regen-configure/U/README:

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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JLine v3.20.0

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Double-conversion v1.1.5

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Source: <https://github.com/facebook/zstd>

Files-Excluded: appveyor.yml

build/*

programs/windres/*

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Files: zlibWrapper/examples/*.c

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lib/accelerated/x86/macosx/aes-ssse3-x86.s

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Author: Rusty Russell <rusty@rustcorp.com.au>

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fuzz/gnutls_ocsp_req_parser_fuzzer.c

fuzz/gnutls_ocsp_resp_parser_fuzzer.c fuzz/gnutls_server_fuzzer.c

fuzz/gnutls_set_trust_file_fuzzer.c fuzz/gnutls_handshake_server_fuzzer.c

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fuzz/gnutls_pkcs7_parser_fuzzer.c fuzz/gnutls_private_key_parser_fuzzer.c

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Files: fuzz/mem.h

fuzz/psk.h fuzz/srp.h fuzz/certs.h
fuzz/gnutls_psk_server_fuzzer.c
fuzz/gnutls_psk_client_fuzzer.c fuzz/gnutls_srp_client_fuzzer.c
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tests/system-override-hash.c tests/resume-lifetime.c

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tests/system-override-sig.c tests/system-override-sig-hash.sh

tests/system-override-tls.sh tests/system-override-versions.sh

tests/iov.c tests/tls13-without-timeout-func.c

tests/cert-tests/certtool-crl-decoding.sh

tests/cert-tests/certtool-long-cn.sh tests/cert-tests/certtool-long-oids.sh

tests/cert-tests/certtool-subca.sh tests/cert-tests/certtool-utf8.sh

tests/cert-tests/crq.sh tests/cert-tests/inhibit-anypolicy.sh
tests/cert-tests/pkcs12-utf8.s tests/cert-tests/pkcs7-broken-sigs.sh
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tests/cert-tests/illegal-rsa.sh tests/cert-tests/invalid-sig.sh
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tests/gnutls-ids.c tests/cert-tests/cert-sanity.sh
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Upstream-Name: nghttp2

Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>

Source: <https://github.com/tatsuhiro-t/nghttp2>

Files: *

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Files: third-party/http-parser/http_parser.c

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Comment: Based on src/http/nginx_http_parse.c from NGINX copyright Igor Sysoev.

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Files: third-party/mruby/*

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Files:

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Source: <https://metacpan.org/release/Error>

Upstream-Contact: Shlomi Fish <shlomif@iglu.org.il>

Upstream-Name: Error

Files: *

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Comment:

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# Based on my original Error.pm, and Exceptions.pm by Peter Seibel
# <peter@weblogic.com> and adapted by Jesse Glick <jglick@sig.bsh.com>.
#
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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.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When

we speak of free software, we are referring to freedom, not
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this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

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

Also, for each distributor's protection, we want to make certain

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification

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

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

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

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

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

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

it.

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

b) Give prominent notice with the combined

library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

That's all there is to it!

This package was created by Peter Tobias tobias@et-inf.fho-empden.de on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns <ajt@debian.org> until 2001.

It is currently maintained by Marco d'Itri <md@linux.it>.

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

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MA

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To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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-Mark

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After discussing this license with the OpenLDAP Foundation we received

clarification on it:

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

Harfbuzz v2.8

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```
</pre>  
## xwd v1.0.7
```

```
### xwd utility  
<pre>
```

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list.h, multiVis.h, wsutils.h, list.c, multiVis.c

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```
</pre>  
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```

```
### CUP Parser Generator License  
<pre>
```

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Files: *

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J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000

Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300

Nol Kthe <noel@debian.org> on Mon, 18 Feb 2002 09:53:00 +0100

It was downloaded from <ftp://ftp.gnu.org/gnu/wget/>

Homepage: <http://www.gnu.org/directory/wget.html>

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misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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

```

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```

From dso/aix/dso.c:

```

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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- It was downloaded from <ftp://ftp.gnu.org/gnu/findutils>

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:

* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>. The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>. Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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Current upstream maintainer is James Youngman <jay@gnu.org>.

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It has been packaged by Marco d'Itri <md@linux.it>.

Original sources were obtained from:

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Comment: This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from <ftp.uu.net> in the directory </pub/archiving/zip/zlib> as the file `zlib-1.0.4.tar.gz`.

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Python License

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

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

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
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Mersenne Twister

The `_random` module includes code based on a download from <http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

Sockets

The ``socket'` module uses the functions, ``getaddrinfo'`, and ``getnameinfo'`, which are coded in separate source files from the WIDE Project, [`http://www.wide.ad.jp/about/index.html'](http://www.wide.ad.jp/about/index.html).

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Modified by Jack Jansen, CWI, July 1995:

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

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/* Beep added by Mark Hammond */

/* Win9X Beep and platform identification added by Uncle Timmy */

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@version

3.0 (December 2000)

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.

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

<svn://gcc.gnu.org/svn/gcc/> (for prereleases)

ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|---------------|------------------|-----------------|------------------|
| Ada | | | |
| | gnat-9 | libgnat-9 | gnat-9-doc |
| BRIG | gccbrig-9 | libhsail-rt0 | |
| C | gcc-9 | | gcc-9-doc |
| C++ | g++-9 | libstdc++6 | libstdc++6-9-doc |
| D | gdc-9 | | |
| Fortran 95 | gfortran-9 | libgfortran3 | gfortran-9-doc |
| Go | gccgo-9 | libgo0 | |
| Objective C | gobjc-9 | libobjc2 | |
| Objective C++ | gobjc++-9 | | |
| Modula-2 | gm2-9 | libgm2 | |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources | Development | Debugging | Position-Independent |
|----------|-----------------|------------------|------------------|----------------------|
| C++ | | libstdc++6-9-dev | libstdc++6-9-dbg | libstdc++6-9-pic |
| D | libphobos-9-dev | | | |

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

GCC intrinsics (platform-dependent)

| | |
|------------------|------------------------------------|
| gcc-9-base | Base files common to all compilers |
| gcc-9-soft-float | Software floating point (ARM only) |
| gcc-9-source | The sources with patches |

Ada:

libgnatvsn-dev, libgnatvsn9 GNAT version library

C:

| | |
|----------------------|---------------------------------------|
| cpp-9, cpp-9-doc | GNU C Preprocessor |
| libssp0-dev, libssp0 | GCC stack smashing protection library |

libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

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libquadmath/math:

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* Conversion to long double by Ulrich Drepper,

* Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c, sinq_kernel.c, truncq.c:

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D:
gdc-9 GNU D Compiler
libphobos-9-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The Phobos standard runtime library:

- d/phobos/*

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LIBGCRYPT The Written Word 2005-04-15

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past and future changes. (new: src/libgrypt.pc.in,
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mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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A. HISTORY OF THE SOFTWARE

=====

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.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
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| | | | | |
|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | | |
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Upstream-Name: libpsl

Source: <https://github.com/rockdaboot/libpsl>

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Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c

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jQuery v3.5.1

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Upstream-Contact: gnupg-devel@gnupg.org

Source: <https://gnupg.org/ftp/gcrypt/libgpg-error/>

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Files: git-svn.perl

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Files: imap-send.c

Copyright: 2000-2002, Michael R. Elkins <me@mutt.org>
2002-2004, Oswald Buddenhagen <ossi@users.sf.net>
2004, Theodore Y. Ts'o <tytso@mit.edu>
2006, Mike McCormack

Name: git-imap-send - drops patches into an imap Drafts folder
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Files: compat/poll/poll.c compat/poll/poll.h

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Files: compat/regex/*

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Name: Extended regular expression matching and search library

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Files: compat/obstack.c compat/obstack.h

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Name: Object stack macros.

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Files: contrib/credential/gnome-keyring/git-credential-gnome-keyring.c

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2012, Philipp A. Hartmann <pah@qo.cx>

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Files: contrib/hg-to-git/hg-to-git.py

Copyright: 2007, Stelian Pop <stelian@popies.net>

Name: hg-to-git.py - A Mercurial to GIT converter

License: GPL-2+

Files: contrib/mw-to-git/git-*.perl contrib/mw-to-git/t/*

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.
[...]

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Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
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Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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Upstream-Name: brotli

Source: <https://github.com/google/brotli>

Files: *

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misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

```
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```
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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

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Upstream-Name: libassuan

Upstream-Contact: Werner Koch <wk@gnupg.org>

Source: <https://gnupg.org/ftp/gcrypt/libassuan/>

Files: *

Makefile.am
src/Makefile.am
src/assuan-buffer.c
src/assuan-error.c
src/assuan-inquire.c
src/assuan-io.c
src/assuan-listen.c
src/assuan-pipe-server.c
src/assuan-socket-connect.c
src/assuan-socket-server.c
src/assuan-socket.c
src/assuan-uds.c
src/client.c
src/context.c
src/funopen.c
src/memrchr.c
src/posix-fd-t.inc.h
src/posix-includes.inc.h
src/posix-sock-nonce.inc.h
src/posix-sys-pth-impl.h
src/posix-types.inc.h
src/putc_unlocked.c
src/server.c
src/setenv.c
src/stpcpy.c
src/system-posix.c
src/system-w32.c
src/system-w32ce.c
src/system.c
src/w32-fd-t.inc.h
src/w32-includes.inc.h
src/w32-sock-nonce.inc.h
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Files:

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aclocal.m4
build-aux/git-log-footer
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INSTALL
m4/gnupg-pth.m4

m4/ltoptions.m4
m4/ltsugar.m4
m4/ltversion.m4
m4/lt~obsolete.m4
m4/onceonly.m4
m4/socklen.m4
m4/sys_socket_h.m4
m4/Makefile.in
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src/gpgcedev.c
src/gpgcedev.def
src/gpgcemgr.c
tests/Makefile.am
tests/Makefile.in
tests/ce-createtime.c
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Upstream-Contact: gnupg-devel@gnupg.org

Source: <https://gnupg.org/ftp/gcrypt/pinentry/>

Files: *

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Upstream-Contact: Niels Mller <nisse@lysator.liu.se>

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CHACHA

Implemented by Joachim Strmbergson, based on the implementation

of

SALSA20 (see below). Assembly for x86_64 by Niels Miller.

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DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL, version 2 or later.

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GOSTHASH94

The C implementation of the GOST94 message digest is written by Aleksey Kravchenko and was ported from the rhash library by Nikos Mavrogiannopoulos. It is released under the MIT license.

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MD2

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SALSA20

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POLY1305

Based on the implementation by Andrew M. (floodyberry), modified by Nikos Mavrogiannopoulos and Niels Mller. Assembly for x86_64 by Niels Mller.

SHA1

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SHA2

Written by Niels Mller, using Peter Gutmanns SHA1 code as a model.

SHA3

Written by Niels Mller.

TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij.

UMAC

Written by Niels Mller.

CMAC

Written by Nikos Mavrogiannopoulos, Niels Mller, Jeremy Allison, Michael Adam and Stefan Metzmacher.

RSA

Written by Niels Mller. Uses the GMP library for bignum operations.

DSA

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

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This package was debianized by Colin Walters <walters@debian.org> on Thu, 3 Jul 2003 17:10:57 -0400.

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src/bdf/README

src/bdf/rules.mk

src/pcf/module.mk
src/pcf/pcf.c src/pcf/pcf.h
src/pcf/pcfdrivr.c src/pcf/pcfdrivr.h
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Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

<svn://gcc.gnu.org/svn/gcc/> (for prereleases)

<ftp://sourceware.org/pub/newlib/> (for newlib)

<git://git.savannah.gnu.org/gm2.git> (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|----------|------------------|-----------------|---------------|
|----------|------------------|-----------------|---------------|

| | | | |
|---------------|-------------|--------------|-------------------|
| Ada | gnat-10 | libgnat-10 | gnat-10-doc |
| BRIG | gccbrig-10 | libhsail-rt0 | |
| C | gcc-10 | | gcc-10-doc |
| C++ | g++-10 | libstdc++6 | libstdc++6-10-doc |
| D | gdc-10 | | |
| Fortran 95 | gfortran-10 | libgfortran5 | gfortran-10-doc |
| Go | gccgo-10 | libgo0 | |
| Objective C | gobjc-10 | libobjc4 | |
| Objective C++ | gobjc++-10 | | |
| Modula-2 | gm2-10 | libgm2 | |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources | Development | Debugging | Position-Independent |
|----------|------------------|-------------------|-------------------|----------------------|
| C++ | | libstdc++6-10-dbg | libstdc++6-10-pic | |
| D | libphobos-10-dev | | | |

Additional packages include:

All languages:

| | |
|-------------------|-------------------------------------|
| libgcc1, | |
| libgcc2, libgcc4 | GCC intrinsics (platform-dependent) |
| gcc-10-base | Base files common to all compilers |
| gcc-10-soft-float | Software floating point (ARM only) |
| gcc-10-source | The sources with patches |

Ada:

libgnat-util10-dev, libgnat-util10 GNAT version library

C:

| | |
|----------------------|---------------------------------------|
| cpp-10, cpp-10-doc | GNU C Preprocessor |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0 | Math routines for the __float128 type |
| fixincludes | Fix non-ANSI header files |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can

also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
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- * Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c, sinq_kernel.c, truncq.c:

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D:

```
gdc-10          GNU D Compiler
libphobos-10-dev  D standard runtime library
```

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:

- d/dmd/*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:

- d/phobos/*

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Mesa 3-D Graphics Library v21.0.3

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include/GL/glxext.h  
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Mesa 3-D
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CUP Parser Generator for Java v 0.10k

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* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-  
jar/javax/annotation/concurrent/NotThreadSafe.java  
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-  
jar/javax/annotation/concurrent/Immutable.java  
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-  
jar/javax/annotation/concurrent/GuardedBy.java
```

1.445 xml-apis 1.4.01

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1.446 servlet-api 3.0.1

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1.447 perfmark-api 0.17.0

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Found in path(s):

```
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Impl.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-
jar/io/perfmark/PerfMark.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/package-
info.java
*
/opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Link.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Tag.java
```

1.448 jackson-annotations 2.15.0

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1.449 jackson-dataformat-yaml 2.15.0

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1.451 disruptor 2.11.2.3

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1.452 jackson-module-parameter-names

2.15.0

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1.453 jackson-xc 2.15.0

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1.454 jackson-datatype-jsr310 2.15.0

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1.455 Iz4-java 1.8.0

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1.456 joda-time 2.11.1

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1.457 jackson-dataformat-csv 2.15.0

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1.458 jackson-jaxrs 2.15.0

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1.460 jackson-jaxrs-base 2.15.0

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1.463 fastdoubleparser 0.8.0

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1.464 jackson-module-scala 2.15.0

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1.465 core-io 1.7.18

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1.466 common-utils 7.0.5

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Other developers who have contributed code are:

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<!DOCTYPE html>

<html lang="en">

<head>

```
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

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permissions and limitations under the License.
-->

</head>

<body>
<!-- Navigation -->
<header>
```

```

<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu"
role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
            <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
            <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>

```

```

</li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">

      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">

```

```

/* The following code is added by mdx_elementid.py
   It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
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<li><a
href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
  <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
  <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
```

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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</head><body>

<h1>Moved Permanently</h1>

<p>The document has moved here.</p>

</body></html>

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Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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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>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.cnl { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li { display: block; }
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<ul>
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<li><p><b>1. Definitions.</b></p>
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</p>

<p>

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

</p>

<p>

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

</p>

<p>

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

<p>

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

<p>

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

</p>

<p>

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</p>

<p>

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

</p>

<p>

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</p>

<p>

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</p>

<p>

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<p>

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</p>

<p>

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and

the section as a whole is intended to apply in other circumstances.

</p>

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to the wide range of software

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</p>

<p>

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</p>

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</p>

<p>

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<p>

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</p>

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<p>

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

<p>

Copyright (C) <year> <name of author>

</p>

<p>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

</p>

<p>

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</p>

<p>

You should have received a copy of the GNU General Public License along

with this program; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

</p>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

</p>

<p>

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
'show w'.

This is free software, and you are welcome to redistribute
it under certain conditions; type 'show c' for details.

</p>

<p>

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

</p>

<p>

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

</p>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

</p>

<p>

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</p>

<li style="background-color:yellow;">

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</p>

<p>

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<p>

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</p>

</body>

</html>

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

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</head>

<body>

<!--

Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu" role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

```

<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;

```

```

var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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larger <a href="#grants">grants of existing software products</a>.</p>
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<h1 id="distributions">Licensing of Distributions<a class="headerlink" href="#distributions" title="Permanent
link">&para;</a></h1>
<p>All software produced by The Apache Software Foundation or any of its
projects or subjects is licensed according to the terms
of the documents
listed below.</p>
<h3 id="2.0">Apache License, Version 2.0 (current)<a class="headerlink" href="#2.0" title="Permanent
link">&para;</a></h3>
<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
<a href="LICENSE-2.0.txt">TXT</a> or <a href="LICENSE-2.0.html">HTML</a> )</p>
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goals of this license revision have been to reduce the number of frequently

```


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The

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Your Full name will be published unless you provide an alternative Public name. For example if your full name is Andrew Bernard Charles Dickens, but you wish to be known as Andrew Dickens, please enter the latter as your Public name.

The email address and other contact details are not published.

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If submitting by fax, please print, sign, and fax all pages of the document to +1-919-573-9199. Please send documents right-side-up, first page first; and send only one document per fax.

If submitting by email, please fill the form with a pdf viewer, print, sign, scan all pages into a single pdf file, and email the pdf file as an attachment to secretary@apache.org. If possible, send the attachment from the email address in the document.

Please send only one document per email.

If you prefer to sign electronically, please fill the form, save it locally (e.g. [icla.pdf](#)), and sign the file by preparing a detached PGP signature. For example,

```
<blockquote>
```

```
<p>gpg --armor --detach-sign icla.pdf</p>
```

```
</blockquote>
```

The above will create a file [icla.pdf.asc](#). Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu.

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<!-- Footer -->

```
<footer class="bg-primary">
  <div class="container">
    <div class="row">
      <br />
      <div class="col-sm-1">

        </div>
        <div class="col-sm-2">
          <h5 class="white">Community</h5>
          <ul class="list-unstyled white" role="menu">
            <li><a href="http://community.apache.org/">Overview</a></li>
            <li><a href="/foundation/conferences.html">Conferences</a></li>
            <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
            <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
            <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
            <li><a href="/travel/">Travel Assistance</a></li>
            <li><a href="/foundation/getinvolved.html">Get
Involved</a></li>
            <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
          </ul>
        </div>

        <div class="col-sm-2">
          <h5 class="white">Innovation</h5>
          <ul class="list-unstyled white" role="menu">
            <li><a href="http://incubator.apache.org/">Incubator</a></li>
            <li><a href="http://labs.apache.org/">Labs</a></li>
            <li><a href="/licenses/">Licensing</a></li>
            <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
            <li><a href="/foundation/marks/">Trademark Policy</a></li>
            <li><a href="/foundation/contact.html">Contacts</a></li>
          </ul>
        </div>
```

```
<div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
```

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

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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Other developers who have contributed code are:

* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

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-->

</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » &a href="/licenses/">Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu"

role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

Committers


```

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;

```

```

var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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link">¶</h1>

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```
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```

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a
href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
```

```
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
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    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>

</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
<html><head>
```

```
<title>301 Moved Permanently</title>
```

```
</head><body>
```

```
<h1>Moved Permanently</h1>
```

```
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
```

```
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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Files: core/*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-
```

```
tools/*.jar /tmp/jars/  
cd <LICENSE_TOOL_PATH>  
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h  
<SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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

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</head>

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0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk
{ font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.cnl { font-family: "Tahoma"; font-size:
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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
  li {display: block;}
</style>
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

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<li><p><b>1. Definitions.</b></p>
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1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

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<p>

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</p>

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</p>

<p>

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

</p>

<p>

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<p>

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<p>

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</p>

<p>

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to the wide range of software

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<p>

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<p>
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</p>

<p>END OF TERMS AND CONDITIONS</p>

<p>How to Apply These Terms to Your New Programs</p>
<p>

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>
<p>
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<p>
One line to give the program's name and a brief idea of what it does.

</p>

<p>
Copyright (C) <year> <name of author>

</p>

<p>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the

Free Software Foundation; either version 2 of the License, or (at your option) any later version.

</p>

<p>

This program 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 General Public License for more details.

</p>

<p>

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</p>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<p>

Gnomovision version 69, Copyright (C) year name of author

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

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

</p>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

</p>

<p>

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

</p>

<li style="background-color:yellow;">

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<p>

Linking this library statically or dynamically with
other modules is making

a combined work based on this library. Thus, the terms and conditions of the
GNU General Public License Version 2 cover the whole combination.

</p>

<p>

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent modules,
and to copy and distribute the resulting executable under terms of your
choice, provided that you also meet, for each linked independent module,
the terms and conditions of the license of that module.? An independent
module is a module which is not derived from or based on this library.? If
you modify this library, you may extend this exception to your version of

the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

```
</p>  
</li>
```

```
</ul>
```

```
</body>  
</html>
```

```
# Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<meta name="description" content="Home page of The Apache Software Foundation">
```

```
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
```

```
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
```

```
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
```

```
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
```

```
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
```

```
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
```

```
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
```

```
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
```

```
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
```

```
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
```

```

<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

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```
</head>
```

```
<body>
```

```
<!--
```

```
Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```

    <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation">Overview</a></li>
      <li><a href="/foundation/members.html">Members</a></li>
      <li><a href="/foundation/how-it-works.html">Process</a></li>
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/glossary.html">Glossary</a></li>
      <li><a href="/foundation/preFAQ.html">FAQ</a></li>
      <li><a href="/foundation/contact.html">Contact</a></li>
    </ul>
  </li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org/">Overview</a></li>
    <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</nav>
</header>

```

```

<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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software and documentation</a>, to accept regular
<a href="#clas">contributions from individuals and corporations</a>, and to accept
larger <a href="#grants">grants of existing software products</a>.</p>
<p>These licenses help us achieve our goal of providing reliable and
long-lived software products through collaborative open source software

```

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<p>The 2.0 version of the Apache License was approved by the ASF in 2004. The goals of this license revision have been to reduce the number of frequently asked questions, to allow the license to be reusable without modification by any project (including non-ASF projects), to allow the license to be included by reference instead of listed in every file, to clarify the license on submission of contributions, to require a patent license on contributions that necessarily infringe the contributor's own patents, and to move comments regarding Apache and other inherited attribution notices to a location outside the license terms (the NOTICE file).</p>

<p>The result is a license that is supposed to be compatible with other open source licenses, while remaining true to the original goals of the Apache Group and supportive of collaborative development across both nonprofit and commercial organizations. The Apache Software Foundation is still trying to determine if this version of the Apache License is compatible with the GPL.</p>

<p>All packages produced by the ASF are implicitly licensed under the Apache License, Version 2.0, unless otherwise explicitly stated. More developer documentation on how to apply the Apache License to your work can be found in * Applying the Apache License, Version 2.0 *.</p>

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<p>http://www.apache.org/licenses/LICENSE-1.1 </p>

<p>The 1.1 version of the Apache License was approved by the ASF in 2000. The primary change from the 1.0 license is in the 'advertising clause' (section 3 of the 1.0 license); derived products are no longer required to include attribution in their advertising materials, only in their documentation.</p>

<p>Individual packages licensed under the 1.1 version may have used different wording due to varying requirements for attribution or mark identification, but the binding terms were all the same.</p>

<h3 id="1.0">Apache License, Version 1.0 (historic)<a class="headerlink" href="#1.0" title="Permanent

link">¶</h3>

<p>http://www.apache.org/licenses/LICENSE-1.0 </p>

<p>This is the original Apache License which applies only to older versions of Apache packages (such as version 1.2 of the Web server).</p>

<h1 id="clas">Contributor License Agreements¶</h1>

<p>The ASF desires that all contributors of ideas, code, or documentation to any Apache projects

complete, sign, and submit (via fax or

email) an Individual Contributor License Agreement (ICLA).

The purpose of this agreement is to clearly define the

terms under which intellectual property has been contributed to the ASF and

thereby allow us to defend the project should there be a legal dispute

regarding the software at some future time. A signed ICLA is required to be

on file before an individual is given commit rights to an ASF project.</p>

<p>For a corporation that has assigned employees to work on an Apache project,

a Corporate CLA (CCLA) is available for contributing

intellectual property via the corporation, that may have been assigned as

part of an employment agreement. Note that a Corporate CLA does not remove

the need for every developer to sign their own ICLA as an individual, to

cover any of their contributions which are not owned by the corporation

signing the CCLA.</p>

<p>The ICLA is not tied to any employer you

may have, so it is recommended to

use one's personal email address in the contact details, rather than an @work

address.</p>

<p>Your Full name will be published unless you provide an alternative Public name.

For example if your full name is Andrew Bernard Charles Dickens, but you wish

to be known as Andrew Dickens, please enter the latter as your Public name.</p>

<p>The email address and other contact details are not published.</p>

<h1 id="grants">Software Grants¶</h1>

<p>When an individual or corporation decides to donate a body of existing

software or documentation to one of the Apache projects, they need to

execute a formal Software Grant Agreement (SGA) with

the ASF. Typically, this is done after negotiating approval with the ASF

Incubator or one of the PMCs, since the ASF

will not accept software unless there is a viable community

available to

support a collaborative project.</p>

<h1 id="submitting">Submitting License Agreements and Grants¶</h1>

<p>Documents may be submitted by fax or email.</p>

<p>If submitting by fax, please print, sign, and fax all pages of the document

to +1-919-573-9199. Please send documents right-side-up, first page first;

and send only one document per fax.</p>

<p>If submitting by email, please fill the form with a pdf viewer,

print, sign, scan all pages into a single pdf file,

and email the pdf file as an attachment to secretary@apache.org. If possible,

send the attachment from the email address in the document.

Please send only one document per email.</p>

<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

a file icla.pdf.asc. Send both the file and signature

as attachments in the same email to secretary@apache.org. Please send only one

document (file plus signature) per email. Please do not submit your public key to Apache.

Instead, please upload your public key to pgpkeys.mit.edu. </p>

<p>The files typically are named

icla.pdf and icla.pdf.asc for individual agreements;

ccla.pdf and ccla.pdf.asc for corporate agreements;

software-grant.pdf and software-grant.pdf.asc for grants. </p>

<h1 id="crypto">Export restrictions¶</h1>

<p>For export restriction information, please consult our ASF Export Classifications page.</p>

<h1 id="trademarks">Trademark and Logo Usage¶</h1>

<p>For ASF trademark and logo usage information, please consult our ASF Trademark Use Policy page.</p>

<h1 id="questions">Questions?¶</h1>

<p>For answers to frequently asked licensing questions, please consult our

Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get

Involved

Community FAQ

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

Incubator

Labs

Licensing

Licensing FAQ

Trademark Policy

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Tech Operations</h5>

<ul class="list-unstyled white" role="menu">

Developer Information

Infrastructure

Security

Status

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

Overview

ASF News

Announcements

Twitter Feed

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy

```
Policy</a></li>
  <li><a href="/licenses/exports/">Export Information</a></li>
  <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
```

<!-- / Footer -->

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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1.471 dropwizard-jersey 2.1.2

1.471.1 Available under license :

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1.472 kafka-protobuf-types 7.0.5

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
```

```

<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu"

```



```

role="menu">
  <li><a href="/foundation">Overview</a></li>
  <li><a href="/foundation/members.html">Members</a></li>
  <li><a href="/foundation/how-it-works.html">Process</a></li>
  <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/glossary.html">Glossary</a></li>
  <li><a href="/foundation/preFAQ.html">FAQ</a></li>
  <li><a href="/foundation/contact.html ">Contact</a></li>
  </ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</nav>
</header>

```

```

<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

```
</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community
FAQ</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```


</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy Policy

Export Information

License/Distribution FAQ

Contacts

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
<html><head>
```

```
<title>301 Moved Permanently</title>
```

```
</head><body>
```

```
<h1>Moved Permanently</h1>
```

```
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
```

```
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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Files: core/*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

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

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

```
<head>
```

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

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.cnl { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```
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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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entity that creates or contributes to the creation of
Modifications.
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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
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  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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```
</head>
```

```
<body>
```

```

<!--
Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
            <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</nav>

```

```

    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>

```

```

<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<p>The
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```

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<p>The email address and other contact details are not published.</p>
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<h1 id="submitting">Submitting License Agreements and Grants¶</h1>
<p>Documents may be submitted by fax or email.</p>
<p>If submitting by fax, please print, sign, and fax all pages of the document to +1-919-573-9199. Please send documents right-side-up, first page first; and send only one document per fax.</p>
<p>If submitting by email, please fill the form with a pdf viewer, print, sign, scan all pages into a single pdf file, and email the pdf file as an attachment to secretary@apache.org. If possible, send the attachment from the email address in the document. Please send only one document per email.</p>
<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>
<blockquote>
<p>gpg --armor --detach-sign icla.pdf</p>
</blockquote>
<p>The above will create a file icla.pdf.asc. Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu. </p>
<p>The files typically are named icla.pdf and icla.pdf.asc for individual agreements; ccla.pdf and ccla.pdf.asc for corporate agreements; software-grant.pdf and software-grant.pdf.asc for grants. </p>
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<p>For export restriction information, please consult our ASF Export Classifications page.</p>
<h1 id="trademarks">Trademark and Logo Usage¶</h1>
<p>For ASF trademark and logo usage information, please consult our ASF Trademark Use Policy page.</p>
<h1 id="questions">Questions?¶</h1>
<p>For answers to frequently asked licensing questions, please consult our Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->


```

<footer class="bg-primary">
<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get
Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>

```

```
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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This distribution has a binary dependency on jersey, which is available under the CDDL License. The source code of jersey can be found at <https://github.com/jersey/jersey/>.

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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To find the details that apply to this artifact see the accompanying LICENSE file.

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Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

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Version 1.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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permissions and limitations under the License.
-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

<div class="container">

```

```

<div class="navbar-header">

```

```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

<span class="sr-only">Toggle navigation</span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```



```

    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;&a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu"
role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">

```

```

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/contributing.html">Donations</a></li>
  <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
  <li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {

```

visibility: hidden;

}

h2: hover > .headerlink, h3: hover > .headerlink, h1: hover > .headerlink, h6: hover > .headerlink, h4: hover > .headerlink, h5: hover >

.headerlink, dt: hover > .elementid-permalink { visibility: visible }</style>

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="/dev/">Developer Information</a></li>
```

```
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
```

```
<li><a href="/security/">Security</a></li>
```

```
<li><a href="http://status.apache.org">Status</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```


</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

Overview

ASF News

Announcements

Twitter Feed

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy Policy

Export Information

License/Distribution FAQ

Contacts

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->


```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
<html><head>
```

```
<title>301 Moved Permanently</title>
```

```
</head><body>
```

```
<h1>Moved Permanently</h1>
```

```
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
```

```
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

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

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

```
<head>
```

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

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```

```
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```

```
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```

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```

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```
<blockquote>Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with
```

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</body>

</html>

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
```

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<ul>
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```
<li><p><b>1. Definitions.</b></p>
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```
<b>1.1. "Contributor" means each individual or  
entity that creates or contributes to the creation of  
Modifications.
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</p>

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</p>

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</p>

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<p>

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</p>

<p>

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</p>

<p>

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<p>

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if the Program itself is interactive

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<p>

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<p>

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</p>

<p>

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</p>

<p>

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</p>

<p>

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</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

<p>

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</p>

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</p>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

</p>

<p>

Gnomovision version 69, Copyright (C) year name of author

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

This is free software, and you are welcome to redistribute

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

</p>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

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</p>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

</p>

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</p>

<li style="background-color:yellow;">

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</p>

</body>

</html>

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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</head>

<body>

<!--

Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu" role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

Committers

```

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];

```

```

    s.parentNode.insertBefore(gcse, s);
  })();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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goals of this license revision have been to reduce the number of frequently
asked questions, to allow the license to be reusable without modification

```

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Please send only one document per email.</p>

<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

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<h1 id="crypto">Export restrictions¶</h1>

<p>For export restriction information, please consult our ASF Export Classifications page.</p>

<h1 id="trademarks">Trademark and Logo Usage¶</h1>

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<h1 id="questions">Questions?¶</h1>

<p>For answers to frequently asked licensing questions, please consult our

Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get

Involved

Community FAQ

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

Incubator

Labs

Licensing

Licensing FAQ

Trademark Policy

Contacts

</div>

<div class="col-sm-2">

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<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
```

```
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
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    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
```

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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1.475 kafka-protobuf-serializer 7.0.5

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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Other developers who have contributed code are:

* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

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-->

</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu"

role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

Committers

Meritocracy

Roles

Planet Apache


```

</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>

```

```

    <gcse:searchbox-only></gcse:searchbox-only>
  </div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a
href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```



```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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Files: core/*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">  
<head>  
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>  
<meta http-equiv="content-type" content="text/html; charset=UTF-8">  
<style type="text/css">  
li { display: block; }  
</style>  
</head>
```

<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">

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</p>

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<p>How to Apply These Terms to Your New Programs</p>

<p>

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

<p>

Copyright (C) <year> <name of author>

</p>

<p>

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</p>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<p>

Gnomovision version 69, Copyright (C) year name of author

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

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

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

</p>

<p>
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

</p>

<p>

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

</p>

<li style="background-color:yellow;">

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Certain source files distributed by Sun Microsystems, Inc. are subject to
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<p>

Linking this library statically or dynamically with
other modules is making
a combined work based on this library. Thus, the terms and conditions of the
GNU General Public License Version 2 cover the whole combination.

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<p>

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choice, provided that you also meet, for each linked independent module,
the terms and conditions of the license of that module.? An independent
module is a module which is not derived from or based on this library.? If
you modify this library, you may extend this exception to your version of
the library, but you are not obligated to do so.? If you do not wish to do
so, delete this exception statement from your version.

</p>

</body>

</html>

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<meta name="description" content="Home page of The Apache Software Foundation">
```

```
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
```

```
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
```

```
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
```

```
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
```

```
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
```

```
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
```

```
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
```

```
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
```

```
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
```

```
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
```

```
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
```

```
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
```

```
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
```

```
<link rel="manifest" href="/favicons/manifest.json">
```

```

<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

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```
</head>
```

```
<body>
```

```
<!--
```

```
Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```

<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
</ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">

```

```

    
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
</div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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```

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Please send only one document per email.

If you prefer to sign electronically, please fill the form, save it locally (e.g. [icla.pdf](#)), and sign the file by preparing a detached PGP signature. For example,


```
<blockquote>
<p>gpg --armor --detach-sign icla.pdf</p>
</blockquote>
<p>The above will create
a file icla.pdf.asc. Send both the file and signature
as attachments in the same email to secretary@apache.org. Please send only one
document (file plus signature) per email. Please do not submit your public key to Apache.
Instead, please upload your public key to pgpkeys.mit.edu. </p>
<p>The files typically are named
icla.pdf and icla.pdf.asc for individual agreements;
ccla.pdf and ccla.pdf.asc for corporate agreements;
software-grant.pdf and software-grant.pdf.asc for grants. </p>
<h1 id="crypto">Export restrictions<a class="headerlink" href="#crypto" title="Permanent link">&para;</a></h1>
<p>For export restriction information, please consult our <a href="/licenses/exports/">ASF Export
Classifications</a> page.</p>
<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent
link">&para;</a></h1>
<p>For ASF trademark and logo usage information, please consult our <a href="/foundation/marks/">ASF
Trademark Use Policy</a> page.</p>
<h1 id="questions">Questions?<a
class="headerlink" href="#questions" title="Permanent link">&para;</a></h1>
<p>For answers to frequently asked licensing questions, please consult our
<a href="/foundation/license-faq.html">Licensing Frequently Asked Questions</a> page.</p></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
<div class="container">
<div class="row">
<br />
<div class="col-sm-1">

</div>
<div class="col-sm-2">
<h5 class="white">Community</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://community.apache.org/">Overview</a></li>
<li><a href="/foundation/conferences.html">Conferences</a></li>
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
<li><a href="/travel/">Travel Assistance</a></li>
<li><a href="/foundation/getinvolved.html">Get
Involved</a></li>
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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1.476 dropwizard-logging 2.1.2

1.476.1 Available under license :

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/*

* Logback: the reliable, generic, fast and flexible logging framework.

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Found in path(s):

* /opt/cola/permits/1685970528_1684868680.5124846/0/dropwizard-logging-2-1-2-sources-jar/io/dropwizard/logging/ResilientOutputStreamBase.java

1.477 kafka-avro-serializer 7.0.5

1.477.1 Available under license :

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```



```

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<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

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<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
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```

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-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

<div class="container">

```

```

<div class="navbar-header">

```

```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

<span class="sr-only">Toggle navigation</span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```

```

    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;&a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu"
role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">

```

```

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/contributing.html">Donations</a></li>
  <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
  <li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {

```

visibility: hidden;

}

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover > .headerlink, h5:hover >

.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="/dev/">Developer Information</a></li>
```

```
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
```

```
<li><a href="/security/">Security</a></li>
```

```
<li><a href="http://status.apache.org">Status</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```


</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

Overview

ASF News

Announcements

Twitter Feed

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy Policy

Export Information

License/Distribution FAQ

Contacts

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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Files: core/*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

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

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

```
<head>
```

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

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```

```
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```

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```
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<blockquote>This program is free software; you can redistribute it and/or modify it under the terms of the GNU
General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your
option) any later version.</blockquote>
<blockquote>This program 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 General Public License for more details.</blockquote>
<blockquote>You should have received a copy of the GNU General Public License along with this program; if not,
write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA</blockquote>
```

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```
<blockquote>Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with
```

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</body>

</html>

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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entity that creates or contributes to the creation of  
Modifications.
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</body>

</html>

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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</head>

<body>

<!--

Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu" role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

Committers

```

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];

```

```

    s.parentNode.insertBefore(gcse, s);
  })();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
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goals of this license revision have been to reduce the number of frequently
asked questions, to allow the license to be reusable without modification

```

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support a collaborative project.</p>

<h1 id="submitting">Submitting License Agreements and Grants¶</h1>

<p>Documents may be submitted by fax or email.</p>

<p>If submitting by fax, please print, sign, and fax all pages of the document to +1-919-573-9199. Please send documents right-side-up, first page first; and send only one document per fax.</p>

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Please send only one document per email.</p>

<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

a file icla.pdf.asc. Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu. </p>

<p>The files typically are named icla.pdf and icla.pdf.asc for individual agreements; ccla.pdf and ccla.pdf.asc for corporate agreements; software-grant.pdf and software-grant.pdf.asc for grants. </p>

<h1 id="crypto">Export restrictions¶</h1>

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<h1 id="trademarks">Trademark and Logo Usage¶</h1>

<p>For ASF trademark and logo usage information, please consult our ASF Trademark Use Policy page.</p>

<h1 id="questions">Questions?¶</h1>

<p>For answers to frequently asked licensing questions, please consult our

Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get

Involved

Community FAQ

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

Incubator

Labs

Licensing

Licensing FAQ

Trademark Policy

Contacts

</div>

<div class="col-sm-2">

```
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
```

```
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
```

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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1.478 kafka-protobuf-provider 7.0.5

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Apache License, Version 2.0</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">

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  -->

</head>
```

```

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu"
role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>

```

```

    <li><a href="http://community.apache.org/">Community Development</a></li>
      <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">

      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>

```

```

</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
   It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```


</div>

<div class="col-sm-2">

<h5 class="white">Tech Operations</h5>

<ul class="list-unstyled white" role="menu">

Developer Information

Infrastructure

Security

Status

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

Overview

ASF News

Announcements

Twitter Feed

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy Policy

Export Information

License/Distribution FAQ

Contacts

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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<h1>Moved Permanently</h1>

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</body></html>

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: *

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

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

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

```
<head>
```

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

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows:
```

0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.ctl { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
<BODY DIR="LTR">
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</body>
</html>

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li { display: block; }
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities

for you if you distribute copies of the software, or if you modify it.

</p>

<p>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</p>

<p>

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</p>

<p>

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the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

</p>

<p>

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

</p>

<p>

The precise terms and conditions for copying, distribution and modification follow.

</p>

<p>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</p>

<ul style="margin-left:0; padding-left:0; border-left:0">

<p>

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying
it may be

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</p>

<p>

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

</p>

<p>

1. You may copy and distribute verbatim copies of the Program's 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 give any other recipients of the Program a copy of this License along with the Program.

</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>

<p>

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

</p>

<p>

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

</p>

<p>

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

</p>

<p>

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception:

if the Program itself is interactive

but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

</p>

<p>

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

</p>

<p>

Thus, it is not the intent of this section to claim rights or contest your rights to work written

entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

</p>

<p>

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

</p>

<p>

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

</p>

<p>

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

<p>

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

<p>

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

</p>

<p>

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the

source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</p>

<p>

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

</p>

<p>

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<p>

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</p>

<p>

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

</p>

<p>

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For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

</p>

<p>

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

</p>

<p>

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Many people have made generous contributions

to the wide range of software

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</p>

<p>

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</p>

<p>

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</p>

<p>

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<p>

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</p>

<p>

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</p>

<p>END OF TERMS AND CONDITIONS</p>

<p>How to Apply These Terms to Your New Programs</p>

<p>

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

<p>

Copyright (C) <year> <name of author>

</p>

<p>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

</p>

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</p>

<p>

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</p>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<p>

Gnomovision version 69, Copyright (C) year name of author

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

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

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

</p>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

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

</p>

<p>

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

</p>

<p>

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

</p>

<li style="background-color:yellow;">

<p>"CLASSPATH" EXCEPTION TO THE GPL VERSION 2</p>

<p>

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

</p>

<p>

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

</p>

<p>

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

</p>


```
</body>
</html>
# Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
```

```
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

```
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See
the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF
licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file
except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0 . Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions and limitations under the License. -->
```

```
</head>
```

```
<body>
```

```
<!--
```

```
Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```

<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">

```

```

<div class="input-group" style="margin-bottom: 5px;">
<script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<a href="#clas">contributions from individuals and corporations</a>, and to accept
larger <a href="#grants">grants of existing software products</a>.</p>
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their work within Apache.</p>
<h1 id="distributions">Licensing of Distributions<a class="headerlink" href="#distributions" title="Permanent
link">&para;</a></h1>
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```

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<p>The

result is a license that is supposed to be compatible with other open source licenses, while remaining true to the original goals of the Apache Group and supportive of collaborative development across both nonprofit and commercial organizations. The Apache Software Foundation is still trying to determine if this version of the Apache License is compatible with the GPL.</p>

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<p>Individual packages licensed under the 1.1 version may have used different wording due to varying requirements for attribution or mark identification, but the binding terms were all the same.</p>

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```
<blockquote>
```

```
<p>gpg --armor --detach-sign icla.pdf</p>
```

```
</blockquote>
```

<p>The above will create
a file icla.pdf.asc. Send both the file and signature
as attachments in the same email to secretary@apache.org. Please send only one
document (file plus signature) per email. Please do not submit your public key to Apache.
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ccla.pdf and ccla.pdf.asc for corporate agreements;
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<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent
link">¶</h1>

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Trademark Use Policy page.</p>

<h1 id="questions">Questions?¶</h1>

<p>For answers to frequently asked licensing questions, please consult our
Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get

Involved

Community FAQ

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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1.481 jackson 2.15.1

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1.482 jackson-dataformat-yaml 2.15.1

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jar/io/micronaut/websocket/WebSocketClientFactory.java
* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-
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jar/io/micronaut/websocket/WebSocketClientFactoryResolver.java
* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-
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jar/io/micronaut/websocket/WebSocketVersion.java  
* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-  
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* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-  
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* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-  
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jar/io/micronaut/websocket/annotation/OnMessage.java  
*  
/opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-  
jar/io/micronaut/websocket/annotation/OnError.java  
* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-  
jar/io/micronaut/websocket/exceptions/package-info.java
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 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/annotation/ServerWebSocket.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/event/WebSocketMessageProcessedEvent.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/WebSocketClient.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/exceptions/WebSocketClientException.java
 *
 /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/WebSocketSession.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/annotation/ClientWebSocket.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/annotation/package-info.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/bind/WebSocketStateBinder.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/exceptions/WebSocketException.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/event/package-info.java
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 /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/annotation/OnClose.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/context/package-info.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/interceptor/WebSocketSessionAware.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/WebSocketBroadcaster.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/interceptor/package-info.java
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 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/annotation/OnOpen.java
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 /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/context/DefaultWebSocketBeanRegistry.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/exceptions/WebSocketSessionException.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-jar/io/micronaut/websocket/context/WebSocketBean.java
 * /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-

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jar/io/micronaut/websocket/package-info.java
* /opt/cola/permits/1701043868_1685472869.938123/0/micronaut-websocket-3-8-8-sources-
jar/io/micronaut/websocket/WebSocketClientRegistry.java
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1.487 micronaut-messaging 3.5.2

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* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/exceptions/MessageListenerException.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/exceptions/MessagingException.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/exceptions/MessagingSystemException.java
*
/opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/exceptions/MessagingClientException.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/SendTo.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/MessageHeader.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/exceptions/package-info.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/package-info.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/MessageHeaders.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/MessageMapping.java
*
/opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/exceptions/MessageAcknowledgementException.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/Acknowledgement.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/MessagingApplication.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/MessageListener.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/MessageBody.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/MessageHeaders.java
* /opt/cola/permits/1701043829_1685472668.9608443/0/micronaut-messaging-3-5-2-sources-jar/io/micronaut/messaging/annotation/package-info.java

1.488 opentelemetry-sdk 0.9.1

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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/response/HateoasErrorResponseProcessorReplacement.java

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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/response/Error.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/ExecutableRouteInfo.java
*

/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/CoroutineHelper.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/response/HateoasErrorResponseProcessor.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/response/ErrorResponseProcessor.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/response/DefaultExecutionContext.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/RouteExecutor.java

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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/HttpStatusHandler.java

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/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/HttpServerConfiguration.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/locale/HttpLocaleResolutionConfiguration.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/cors/CorsOriginConfiguration.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/types/files/FileCustomizableResponseType.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/cors/CorsFilter.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/types/files/SystemFile.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/HttpHostResolver.java

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/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/package-info.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/binding/RequestArgumentSatisfier.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/cors/CorsUtil.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/UnsatisfiedArgumentHandler.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/locale/CookieLocaleResolver.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/DuplicateRouteHandler.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/DefaultHttpClientAddressResolver.java

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/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/HttpServerException.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/multipart/package-info.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/locale/CompositeHttpLocaleResolver.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/cors/package-info.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/locale/RequestLocaleResolver.java

* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/context/package-info.java


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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/exceptions/InternalServerErrorException.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/exceptions/JsonExceptionHandler.java
*
/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/binding/LocaleArgumentBinder.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/context/ServerRequestContextInstrumentation.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/exceptions/package-info.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/cors/CorsOriginConverter.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/multipart/MultipartBody.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/package-info.java
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/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/util/locale/HttpFixedLocaleResolver.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/util/locale/HttpLocaleResolver.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/types/CustomizableResponseTypeException.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/util/HttpClientAddressResolver.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/exceptions/ConversionErrorHandler.java
*
/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/types/CustomizableResponseType.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-
jar/io/micronaut/http/server/util/locale/package-info.java

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* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/locale/HttpAbstractLocaleResolver.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/util/DefaultHttpHostResolver.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/URISyntaxHandler.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/codecs/TextStreamCodec.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/UnsatisfiedRouteHandler.java
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/opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/context/ServerRequestContextInvocationInstrumenter.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/types/package-info.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/exceptions/ContentLengthExceededHandler.java
* /opt/cola/permits/1701043707_1685472913.2929564/0/micronaut-http-server-3-8-8-sources-jar/io/micronaut/http/server/binding/BasicAuthArgumentBinder.java

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1.495 micronaut-validation 3.8.8

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1.496 jackson-module-blackbird 2.15.0

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ASM: a very small and fast Java bytecode manipulation framework

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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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1.497 micronaut-core-reactive 3.8.8

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* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/subscriber/SingleThreadedBufferingSubscriber.java

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/opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/package-info.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/publisher/CompletableFuturePublisher.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/processor/package-info.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/subscriber/Completable.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/publisher/SingleSubscriberPublisher.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/publisher/AsyncSingleResultPublisher.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/processor/SingleSubscriberProcessor.java

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/opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-jar/io/micronaut/core/async/subscriber/TypedSubscriber.java

* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-

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jar/io/micronaut/core/async/publisher/package-info.java
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* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-
jar/io/micronaut/core/async/subscriber/CompletionAwareSubscriber.java
* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-
jar/io/micronaut/core/async/annotation/SingleResult.java
* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-
jar/io/micronaut/core/async/subscriber/Emitter.java
* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-
jar/io/micronaut/core/async/publisher/Publishers.java
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```
* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-
jar/io/micronaut/core/async/publisher/PublishersOptimizations.java
* /opt/cola/permits/1701043813_1685472430.680824/0/micronaut-core-reactive-3-8-8-sources-
jar/io/micronaut/core/async/ReactiveStreamsTypeInfoProvider.java
```

1.498 micronaut-context 3.8.8

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*MapClaims.java
* Note: rewritten to standard Java 8 DateTime by zemiak (c) 2016
* Forked from: <https://github.com/frode-carlsen/cron>
*/

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* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/cron/CronExpression.java

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* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/event/AbstractEmbeddedApplicationEvent.java

* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/event/ApplicationStartupEvent.java

* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/converters/time/TimeConverterRegistrar.java

*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/TaskExecutors.java

* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/executor/IOExecutorServiceConfig.java

* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/context/env/ConfigurationAdvice.java

* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-

jar/io/micronaut/scheduling/annotation/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/TaskScheduler.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/context/env/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/context/scope/package-info.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/InvocationInstrumenterFactory.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/Micronaut.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/annotation/Scheduled.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/MultipleInvocationInstrumenter.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/server/event/ServerShutdownEvent.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/event/annotation/EventListener.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/context/scope/ScopedProxy.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/NoopInstrumentation.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/server/event/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/ScheduledExecutorTaskScheduler.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/executor/ExecutorSelector.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/exceptions/TaskExecutionException.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/context/scope/refresh/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/EmbeddedApplication.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/processor/ScheduledMethodProcessor.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/InstrumentedExecutorService.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/context/scope/ThreadLocalCustomScope.java

* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/converters/reactive/package-info.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/context/scope/Refreshable.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/executor/UserExecutorConfiguration.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/TaskExceptionHandler.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/executor/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/DefaultTaskExceptionHandler.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/instrument/Instrumentation.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/io/watch/FileWatchConfiguration.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/io/watch/event/WatchEventType.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/server/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/context/CompositeMessageSource.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/event/ApplicationShutdownEvent.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/event/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/executor/NamedThreadFactory.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/async/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/exceptions/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/instrument/ExecutorServiceInstrumenter.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/io/watch/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/io/watch/event/FileChangedEvent.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/context/scope/ThreadLocal.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/scheduling/executor/DefaultThreadFactory.java
*

/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/runtime/event/annotation/package-info.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/io/watch/DefaultWatchThread.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/runtime/ApplicationConfiguration.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/io/watch/FileWatchCondition.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/runtime/converters/time/package-info.java
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 /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/instrument/InvocationInstrumenterWrappedRunnable.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/exceptions/package-info.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/instrument/InvocationInstrumenterWrappedCallable.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/runtime/context/scope/refresh/RefreshScope.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/annotation/ExecuteOn.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 *
 /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/io/watch/WatchServiceFactory.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/scheduling/instrument/ReactiveInvocationInstrumenterFactory.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/runtime/context/env/ConfigurationIntroductionAdvice.java
 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
 jar/io/micronaut/runtime/server/event/ServerStartupEvent.java
 *
 /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
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 * /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-

jar/io/micronaut/scheduling/annotation/Schedules.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/processor/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/exceptions/SchedulerConfigurationException.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/executor/ExecutorType.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/cron/package-info.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/InstrumentedExecutor.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/InvocationInstrumenter.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/runtime/server/EmbeddedServer.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/executor/ExecutorFactory.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/RunnableInstrumenter.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/NextFireTime.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/executor/ThreadSelection.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/ReschedulingTask.java
*
/opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/instrument/InstrumentedScheduledExecutorService.java
* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-
jar/io/micronaut/scheduling/executor/ExecutorConfiguration.java
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* /opt/cola/permits/1701043789_1685703605.0879838/0/micronaut-context-3-8-8-sources-jar/io/micronaut/runtime/converters/reactive/ReactiveTypeConverterRegistrar.java

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1.499 micronaut-http-client 3.8.8

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1.500 dropwizard-core 2.1.2

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1.501 opentelemetry-api 0.9.1

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1.502 jackson-module-guice 2.15.0

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Found in path(s):

* /opt/cola/permits/1701043860_1685472734.1696403/0/micronaut-http-netty-3-8-8-sources-jar/io/micronaut/http/netty/stream/package-info.java

1.504 aws-java-sdk-core 1.12.326

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Found in path(s):

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/ImmutableRequest.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/RequestSigner.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/SignerAsRequestSigner.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/transform/EnhancedJsonErrorUnmarshaller.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/ReflectionMethodInvoker.java

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jar/com/amazonaws/handlers/AsyncHandler.java

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- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/CredentialUtils.java

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- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/SdkRequestRetryHeaderProvider.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/BinaryUtils.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/DateUtils.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/Classes.java

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jar/com/amazonaws/internal/SdkSSLContext.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/annotation/package-info.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/internal/JsonProtocolMarshaller.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/http/ErrorCodeParser.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/ReleasableInputStream.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/ResettableInputStream.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/InMemoryRegionsProvider.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/InMemoryRegionImpl.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/partitions/model/Endpoint.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/RegionImpl.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/partitions/model/CredentialScope.java

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/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/partitions/model/Region.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/partitions/PartitionRegionImpl.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/regions/RegionMetadataProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/SdkIonGenerator.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/partitions/PartitionsLoader.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/regions/RegionMetadataFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/partitions/PartitionMetadataProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/partitions/model/Partition.java
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jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/Protocol.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/ImmutableMapParameter.java
*
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/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/config/JsonIndex.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/config/SignerConfig.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/config/Builder.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/jmx/JmxInfoProviderSupport.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java

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/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/ServiceClientHolderInputStream.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/AWSSessionCredentials.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/metrics/MetricAdmin.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/RequestClientOptions.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/ClassLoaderHelper.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/BasicSessionCredentials.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/JsonFactory.java

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jar/com/amazonaws/util/NameValuePair.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/URLEncodedUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/BasicNameValuePair.java
```

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jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/AwsHostNameUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/HandlerContextAware.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/IdleConnectionReaper.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/internal/AuthErrorRetryStrategy.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/VoidJsonUnmarshaller.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/WaiterTimedOutException.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/AwsClientSideMonitoringMetrics.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/metrics/package-info.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/PollingStrategy.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/apache/request/impl/HttpGetWithBody.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/AWSServiceMetrics.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/AWSRequestMetrics.java

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/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/ClientConfiguration.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/MaxAttemptsRetryStrategy.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/policy/conditions/ConditionFactory.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/HttpResponse.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/NoOpSigner.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/WaiterState.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/monitoring/internal/ClientSideMonitoringRequestHandler.java

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/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/conn/SdkPlainSocketFactory.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/WaiterUnrecoverableException.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/AmazonWebServiceClient.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/http/conn/ClientConnectionRequestFactory.java
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 jar/com/amazonaws/transform/StandardErrorUnmarshaller.java
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 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/http/conn/ClientConnectionManagerFactory.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/waiters/WaiterHandler.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/JsonUnmarshallerContextImpl.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/metrics/SimpleMetricType.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/ProxyAuthenticationMethod.java
 *
 /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/cache/KeyConverter.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/cache/EndpointDiscoveryCacheLoader.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/endpointdiscovery/EndpointDiscoveryProviderChain.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/AWSRequestMetricsFullSupport.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/policy/conditions/BooleanCondition.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/metrics/AwsSdkMetrics.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/Marshaller.java
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 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/handlers/RequestHandler2Adaptor.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/DefaultErrorResponseHandler.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/monitoring/CsmConfigurationProviderChain.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/WaiterExecution.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/cache/Cache.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/Signer.java
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 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/endpointdiscovery/DaemonThreadFactory.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/PollingStrategyContext.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/monitoring/MonitoringListener.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/metrics/MetricFilterInputStream.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/retry/internal/AuthRetryParameters.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/waiters/FixedDelayStrategy.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/metrics/MetricInputStreamEntity.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/config/InternalConfig.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/StringUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/waiters/NoOpWaiterHandler.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/monitoring/DefaultCsmConfigurationProviderChain.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/ResponseMetadataCache.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/handlers/HandlerContextKey.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/settings/HttpClientSettings.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTask.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskImpl.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/JsonErrorUnmarshaller.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/ComparableUtils.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/handlers/StackedRequestHandler.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/http/JsonErrorMessageParser.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/DelegatingDnsResolver.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/timers/TimeoutThreadPoolBuilder.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/timers/client/ClientExecutionTimeoutException.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/log/CommonsLogFactory.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/DnsResolver.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/log/CommonsLog.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/SDKGlobalTime.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/SdkSSLMetricsSocket.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-


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jar/com/amazonaws/SignableRequest.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/client/ConnectionFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/DelegateSocket.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/log/JulLog.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/SdkInternalList.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/timers/request/NoOpHttpRequestAbortTaskTracker.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/SdkThreadLocalsRegistry.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/exception/HttpRequestTimeoutException.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/JsonErrorResponseHandler.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/SdkInternalMap.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/log/JulLogFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/timers/request/HttpRequestTimer.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/PredefinedClientConfigurations.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/ValidationUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/client/HttpClientFactory.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/NamedDefaultThreadFactory.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/endpoint/RegionFromEndpointResolver.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/MetadataSupportedRegionFromEndpointProvider.java
*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/endpoint/DefaultRegionFromEndpointResolver.java

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jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/annotation/SdkProtectedApi.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/annotation/Immutable.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/annotation/GuardedBy.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/annotation/SdkInternalApi.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/annotation/SdkTestInternalApi.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/annotation/ThreadSafe.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/annotation/NotThreadSafe.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/DeliveryMode.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/ProcessCredentialsProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/internal/AWS4SignerUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/ResponseProgressInputStream.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/ProfileProcessCredentialsProvider.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/SdkInputStream.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/SDKProgressPublisher.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/Releasable.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/UnreliableTestConfig.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/request/ProgressSupport.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/DelegateSSLSocket.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/LengthCheckInputStream.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/UnreliableFilterInputStream.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/Profile.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/ProgressTracker.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/SdkSocket.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/FIFOCache.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/internal/SignerKey.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/RequestProgressInputStream.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceLoader.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/request/Progress.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/event/ProgressEventFilter.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/SdkSSLSocket.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/Platform.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/internal/SignerConstants.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/ProfilesConfigFile.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

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jar/com/amazonaws/auth/profile/package-info.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/event/ProgressInputStream.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
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/**
* Interface for providing AWS region information. Implementations are free to use any strategy for
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/SignatureVersion.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/transform/Unmarshaller.java

*

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/AmazonClientException.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/SigningAlgorithm.java

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- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/JsonContentTypeResolverImpl.java
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- /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/JsonErrorResponseMetadata.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/StaticSignerProvider.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/ProfileKeyConstants.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/client/AwsAsyncClientParams.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/internal/MarshallerRegistry.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/client/ClientExecutionParams.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/internal/JsonMarshaller.java
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- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/V2CompatibleBackoffStrategy.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/profile/internal/AwsProfileNameLoader.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/StringInputStream.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/JsonOperationMetadata.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/v2/RetryCondition.java
- * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/internal/SimpleTypePathMarshallers.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/client/builder/AwsAsyncClientBuilder.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/v2/FixedDelayBackoffStrategy.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/v2/OrRetryCondition.java
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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/conn/ssl/TLSProtocol.java
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 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/IOUtils.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/auth/RegionAwareSigner.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/internal/SdkBufferedInputStream.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/internal/SdkFilterOutputStream.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/regions/Region.java
 *
 /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/internal/MetricAware.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/EncodingSchemeEnum.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/Base32.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/Base32Codec.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/auth/ServiceAwareSigner.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/Base64.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/Base16.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/HttpClientWrappingInputStream.java
 *
 /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
 jar/com/amazonaws/util/SdkRuntime.java
 * /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/util/EC2MetadataUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/regions/RegionUtils.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/regions/RegionMetadataParser.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/ListWithAutoConstructFlag.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/SdkDigestInputStream.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/Codec.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/Throwables.java

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```

Found in path(s):

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/FakeIOException.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/handlers/IRequestHandler2.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/CanHandleNullCredentials.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/IdempotentUtils.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/apache/client/impl/ApacheHttpClientFactory.java
*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/log/InternalLogFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/CapacityManager.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/http/timers/package-info.java

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*/

/**

* Interface for providing AWS credentials. Implementations are free to use any

* strategy for providing AWS credentials, such as simply providing static

* credentials that don't change, or more complicated implementations, such as

* integrating with existing key management systems.

*/

Found in path(s):

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/AWSCredentialsProvider.java

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Found in path(s):

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/NullResponseMetadataCache.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/adapters/types/TypeAdapter.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/auth/NoOpSignerProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/auth/SignerProviderContext.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/adapters/types/StringToInputStreamAdapter.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/auth/DefaultSignerProvider.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/util/MetadataCache.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/auth/SignerProvider.java
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Found in path(s):

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/util/StringMapBuilder.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/util/JodaTime.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/http/apache/Utils/Utils.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/http/apache/request/impl/HttpRequestFactory.java

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Found in path(s):

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-

jar/com/amazonaws/util/Md5Utils.java

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```
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/SdkCborGenerator.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java
*
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/StructuredJsonGenerator.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/http/JsonResponseHandler.java
```

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/ServiceAbbreviations.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/regions/Regions.java

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* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/RetryMode.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/TokenBucket.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/EC2ResourceFetcher.java

*

/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/ContainerCredentialsProvider.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/CredentialsEndpointProvider.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/InstanceMetadataServiceResourceFetcher.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/internal/ConnectionUtils.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/BaseCredentialsFetcher.java

* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-jar/com/amazonaws/auth/InstanceMetadataServiceCredentialsFetcher.java

*

```
/opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/EndpointPrefixAwareSigner.java
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/auth/ContainerCredentialsFetcher.java
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```
* /opt/cola/permits/1701043743_1685472903.889025/0/aws-java-sdk-core-1-12-326-sources-
jar/com/amazonaws/util/PolicyUtils.java
```

1.505 bind-license 9.11.4-26.P2.e17_9.13

1.505.1 Available under license :

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```
* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SPECS/bind.spec
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```

From 346683631ae0f83ad4f09a69cfa5e5c6ea49e5d9 Mon Sep 17 00:00:00 2001

From: Evan Hunt <each@isc.org>

Date: Tue, 12 Sep 2017 19:05:46 -0700

Subject: [PATCH] rebased rt31459c

[rt31459d] update the newer tools

[rt31459d] setup entropy in dns_lib_init()

[rt31459d] silence compiler warning

DNS_OPENSSL_LIBS -> DST_OPENSSL_LIBS

Include new unit test

```
bin/confgen/keygen.c          | 7 +
bin/dnssec/dnssec-dsfromkey.c | 8 +-
bin/dnssec/dnssec-importkey.c | 8 +-
bin/dnssec/dnssec-revoke.c    | 8 +-
bin/dnssec/dnssec-settime.c   | 8 +-
bin/dnssec/dnssec-signzone.c  | 11 +-
bin/dnssec/dnssec-verify.c    | 8 +-
bin/dnssec/dnssectool.c       | 11 +-
bin/named/server.c            | 6 +
bin/nsupdate/nsupdate.c       | 14 +-
bin/tests/makejournal.c        | 6 +-
bin/tests/system/pipelined/pipequeries.c
| 20 +-
bin/tests/system/pipelined/tests.sh | 4 +-
bin/tests/system/rsabigexponent/bigkey.c | 4 +
bin/tests/system/tkey/keycreate.c | 26 +++
bin/tests/system/tkey/keydelete.c | 26 +++
bin/tests/system/tkey/tests.sh | 8 +-
bin/tools/mdig.c              | 3 +-
configure                     | 250 ++++++-----
configure.ac                  | 77 +++++-
lib/dns/dst_api.c             | 21 +-
lib/dns/include/dst/dst.h     | 8 +
lib/dns/lib.c                 | 15 +-
lib/dns/openssl_link.c        | 72 +++++-
lib/dns/pkcs11.c              | 29 +++
lib/dns/tests/Kyuafile        | 1 +
lib/dns/tests/Makefile.in     | 7 +
lib/dns/tests/dstrandom_test.c | 115 ++++++
lib/dns/win32/libdns.def.in   | 7 +
lib/isc/entropy.c             | 24 +++
lib/isc/include/isc/entropy.h
| 12 ++
lib/isc/include/isc/platform.h.in | 5 +
lib/isc/include/isc/types.h   | 2 +
lib/isc/pk11.c                | 12 +-
lib/isc/win32/include/isc/platform.h.in | 5 +
win32utils/Configure          | 28 +++
```

36 files changed, 701 insertions(+), 175 deletions(-)

create mode 100644 lib/dns/tests/dstrandom_test.c

diff --git a/bin/confgen/keygen.c b/bin/confgen/keygen.c

index 40cf74c..bd269e7 100644

--- a/bin/confgen/keygen.c

+++ b/bin/confgen/keygen.c

@@ -165,6 +165,13 @@ generate_key(isc_mem_t *mctx, const char *randomfile, dns_secalg_t alg,

randomfile = NULL;

open_keyboard = ISC_ENTROPY_KEYBOARDYES;

}

+#ifdef ISC_PLATFORM_CRYPTORANDOM

+ if (randomfile != NULL &&

+ strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {

+ randomfile = NULL;

+ isc_entropy_usehook(ectx, true);

+ }

+#endif

DO("start entropy source", isc_entropy_usebestsource(ectx,

&entropy_source,

randomfile,

diff --git a/bin/dnssec/dnssec-dsfromkey.c b/bin/dnssec/dnssec-dsfromkey.c

index 4420f2d..9cb63a8 100644

--- a/bin/dnssec/dnssec-dsfromkey.c

+++ b/bin/dnssec/dnssec-dsfromkey.c

@@ -498,14 +498,14 @@ main(int argc, char **argv) {

if (ectx == NULL)

setup_entropy(mctx, NULL, &ectx);

- result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);

- if (result != ISC_R_SUCCESS)

- fatal("could not initialize hash");

result = dst_lib_init(mctx, ectx,

ISC_ENTROPY_BLOCKING | ISC_ENTROPY_GOODONLY);

if (result != ISC_R_SUCCESS)

fatal("could not initialize dst: %s",

isc_result_totext(result));

+ result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);

+ if (result != ISC_R_SUCCESS)

+ fatal("could not initialize hash");

isc_entropy_stopcallbacksources(ectx);

setup_logging(mctx, &log);

@@ -574,8 +574,8 @@ main(int argc, char **argv) {

if (dns_rdataset_isassociated(&rdataset))

dns_rdataset_disassociate(&rdataset);

cleanup_logging(&log);

```

- dst_lib_destroy();
  isc_hash_destroy();
+ dst_lib_destroy();
  cleanup_entropy(&ectx);
  dns_name_destroy();
  if (verbose > 10)
diff --git a/bin/dnssec/dnssec-importkey.c b/bin/dnssec/dnssec-importkey.c
index dc9a293..52863a1 100644
--- a/bin/dnssec/dnssec-importkey.c
+++ b/bin/dnssec/dnssec-importkey.c
@@ -404,14 +404,14 @@ main(int argc, char **argv) {

  if (ectx == NULL)
    setup_entropy(mctx, NULL, &ectx);
- result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
- if (result != ISC_R_SUCCESS)
- fatal("could not initialize hash");
  result = dst_lib_init(mctx, ectx,
    ISC_ENTROPY_BLOCKING | ISC_ENTROPY_GOODONLY);
  if (result != ISC_R_SUCCESS)
    fatal("could not initialize dst: %s",
      isc_result_totext(result));
+ result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
+ if (result != ISC_R_SUCCESS)
+ fatal("could not initialize hash");
  isc_entropy_stopcallbacksources(ectx);

  setup_logging(mctx, &log);
@@ -455,8 +455,8 @@ main(int argc, char **argv) {
  if (dns_rdataset_isassociated(&rdataset))
    dns_rdataset_disassociate(&rdataset);
  cleanup_logging(&log);
- dst_lib_destroy();
  isc_hash_destroy();
+ dst_lib_destroy();
  cleanup_entropy(&ectx);
  dns_name_destroy();
  if (verbose > 10)
diff --git a/bin/dnssec/dnssec-revoke.c b/bin/dnssec/dnssec-revoke.c
index 0121a34..74a99b0 100644
--- a/bin/dnssec/dnssec-revoke.c
+++ b/bin/dnssec/dnssec-revoke.c
@@ -184,14 +184,14 @@ main(int argc, char **argv) {

  if (ectx == NULL)
    setup_entropy(mctx, NULL, &ectx);
- result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
- if (result != ISC_R_SUCCESS)

```



```

- fatal("Could not initialize hash");
result = dst_lib_init2(mctx, ectx, engine,
    ISC_ENTROPY_BLOCKING | ISC_ENTROPY_GOODONLY);
if (result != ISC_R_SUCCESS)
    fatal("Could not initialize dst: %s",
        isc_result_totext(result));
+ result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
+ if (result != ISC_R_SUCCESS)
+ fatal("Could not initialize hash");
isc_entropy_stopcallbacksources(ectx);

```

```

result = dst_key_fromnamedfile(filename, dir,
@@ -273,8 +273,8 @@ main(int argc, char **argv) {

```

cleanup:

```

dst_key_free(&key);
- dst_lib_destroy();
isc_hash_destroy();
+ dst_lib_destroy();
cleanup_entropy(&ectx);
if (verbose > 10)
    isc_mem_stats(mctx, stdout);
diff --git a/bin/dnssec/dnssec-settime.c b/bin/dnssec/dnssec-settime.c
index f017895..2c568fc 100644
--- a/bin/dnssec/dnssec-settime.c
+++ b/bin/dnssec/dnssec-settime.c
@@ -391,14 +391,14 @@ main(int argc, char **argv) {

```

```

if (ectx == NULL)
    setup_entropy(mctx, NULL, &ectx);
- result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
- if (result != ISC_R_SUCCESS)
- fatal("Could not initialize hash");
result = dst_lib_init2(mctx, ectx, engine,
    ISC_ENTROPY_BLOCKING | ISC_ENTROPY_GOODONLY);
if (result != ISC_R_SUCCESS)
    fatal("Could not initialize dst: %s",
        isc_result_totext(result));
+ result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
+ if (result != ISC_R_SUCCESS)
+ fatal("Could
not initialize hash");
isc_entropy_stopcallbacksources(ectx);

```

```

if (predecessor != NULL) {
@@ -683,8 +683,8 @@ main(int argc, char **argv) {
if (prevkey != NULL)
    dst_key_free(&prevkey);

```

```

dst_key_free(&key);
- dst_lib_destroy();
isc_hash_destroy();
+ dst_lib_destroy();
cleanup_entropy(&ectx);
if (verbose > 10)
    isc_mem_stats(mctx, stdout);
diff --git a/bin/dnssec/dnssec-signzone.c b/bin/dnssec/dnssec-signzone.c
index a097ac8..6567421 100644
--- a/bin/dnssec/dnssec-signzone.c
+++ b/bin/dnssec/dnssec-signzone.c
@@ -3472,14 +3472,15 @@ main(int argc, char *argv[]) {
if (!pseudorandom)
    eflags |= ISC_ENTROPY_GOODONLY;

- result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
- if (result != ISC_R_SUCCESS)
- fatal("could not create hash context");
-
result = dst_lib_init2(mctx, ectx, engine, eflags);
if (result != ISC_R_SUCCESS)
    fatal("could not initialize dst: %s",
        isc_result_totext(result));
+
+ result = isc_hash_create(mctx, ectx,
    DNS_NAME_MAXWIRE);
+ if (result != ISC_R_SUCCESS)
+ fatal("could not create hash context");
+
isc_stdtime_get(&now);

if (startstr != NULL) {
@@ -3896,8 +3897,8 @@ main(int argc, char *argv[]) {
dns_master_styledestroy(&dsstyle, mctx);

cleanup_logging(&log);
- dst_lib_destroy();
isc_hash_destroy();
+ dst_lib_destroy();
cleanup_entropy(&ectx);
dns_name_destroy();
if (verbose > 10)
diff --git a/bin/dnssec/dnssec-verify.c b/bin/dnssec/dnssec-verify.c
index 087cd5d..07c7294 100644
--- a/bin/dnssec/dnssec-verify.c
+++ b/bin/dnssec/dnssec-verify.c
@@ -281,15 +281,15 @@ main(int argc, char *argv[]) {
if (ectx == NULL)

```

```

setup_entropy(mctx, NULL, &ectx);

- result = isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
- if (result != ISC_R_SUCCESS)
- fatal("could not create hash context");
-
result = dst_lib_init2(mctx, ectx, engine, ISC_ENTROPY_BLOCKING);
if (result != ISC_R_SUCCESS)
fatal("could not initialize dst: %s",
    isc_result_totext(result));

+ result
= isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE);
+ if (result != ISC_R_SUCCESS)
+ fatal("could not create hash context");
+
isc_stdtime_get(&now);

rdclass = strtoclass(classname);
diff --git a/bin/dnssec/dnssectool.c b/bin/dnssec/dnssectool.c
index 7f045e8..2a0f9c6 100644
--- a/bin/dnssec/dnssectool.c
+++ b/bin/dnssec/dnssectool.c
@@ -34,6 +34,7 @@
#include <isc/heap.h>
#include <isc/list.h>
#include <isc/mem.h>
+#include <isc/platform.h>
#include <isc/print.h>
#include <isc/string.h>
#include <isc/time.h>
@@ -235,7 +236,8 @@ setup_entropy(isc_mem_t *mctx, const char *randomfile, isc_entropy_t **ectx) {
if (*ectx == NULL) {
result = isc_entropy_create(mctx, ectx);
if (result != ISC_R_SUCCESS)
- fatal("could not create entropy object");
+ fatal("could not create entropy object: %s",
+     isc_result_totext(result));
ISC_LIST_INIT(sources);
}

@@ -244,6 +246,13 @@ setup_entropy(isc_mem_t *mctx, const char *randomfile, isc_entropy_t **ectx) {
randomfile
= NULL;
}

#ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (randomfile != NULL &&

```

```

+  strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
+  randomfile = NULL;
+  isc_entropy_usehook(*ectx, true);
+ }
+#endif
result = isc_entropy_usebestsource(*ectx, &source, randomfile,
    usekeyboard);

diff --git a/bin/named/server.c b/bin/named/server.c
index 9826588..b3e3fc3 100644
--- a/bin/named/server.c
+++ b/bin/named/server.c
@@ -36,6 +36,7 @@
#include <isc/lex.h>
#include <isc/meminfo.h>
#include <isc/parseint.h>
+#include <isc/platform.h>
#include <isc/portset.h>
#include <isc/print.h>
#include <isc/random.h>
@@ -8291,6 +8292,10 @@ load_configuration(const char *filename, ns_server_t *server,
    "no source of entropy found");
    } else {
        const char *randomdev = cfg_obj_asstring(obj);
+#ifdef ISC_PLATFORM_CRYPTORANDOM
+  if (strcmp(randomdev, ISC_PLATFORM_CRYPTORANDOM) == 0)
+  isc_entropy_usehook(ns_g_entropy, true);
+#else
    int level = ISC_LOG_ERROR;
    result
= isc_entropy_createfilesource(ns_g_entropy,
    randomdev);
@@ -8325,6 +8330,7 @@ load_configuration(const char *filename, ns_server_t *server,
    }
    isc_entropy_detach(&ns_g_fallbackentropy);
    }
+#endif
#endif
}

diff --git a/bin/nsupdate/nsupdate.c b/bin/nsupdate/nsupdate.c
index 52b0274..23b69c9 100644
--- a/bin/nsupdate/nsupdate.c
+++ b/bin/nsupdate/nsupdate.c
@@ -279,7 +279,8 @@ setup_entropy(isc_mem_t *mctx, const char *randomfile, isc_entropy_t **ectx) {
if (*ectx == NULL) {
    result = isc_entropy_create(mctx, ectx);
    if (result != ISC_R_SUCCESS)

```

```

- fatal("could not create entropy object");
+ fatal("could not create entropy object: %s",
+   isc_result_totext(result));
  ISC_LIST_INIT(sources);
}

@@ -288,6 +289,13 @@ setup_entropy(isc_mem_t *mctx, const char *randomfile, isc_entropy_t **ectx) {
  randomfile = NULL;
}

#ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (randomfile != NULL &&
+   strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM)
+ == 0) {
+   randomfile = NULL;
+   isc_entropy_usehook(*ectx, true);
+ }
#endif
result = isc_entropy_usebestsource(*ectx, &source, randomfile,
  usekeyboard);

@@ -990,11 +998,11 @@ setup_system(void) {
}
}

- setup_entropy(gmctx, NULL, &entropy);
+ if (entropy == NULL)
+ setup_entropy(gmctx, NULL, &entropy);

result = isc_hash_create(gmctx, entropy, DNS_NAME_MAXWIRE);
check_result(result, "isc_hash_create");
- isc_hash_init();

result = dns_dispatchmgr_create(gmctx, entropy, &dispatchmgr);
check_result(result, "dns_dispatchmgr_create");
diff --git a/bin/tests/makejournal.c b/bin/tests/makejournal.c
index 68b5e5a..cd54c8d 100644
--- a/bin/tests/makejournal.c
+++ b/bin/tests/makejournal.c
@@ -102,12 +102,12 @@ main(int argc, char **argv) {
  CHECK(isc_mem_create(0, 0, &mctx));
  CHECK(isc_entropy_create(mctx, &ectx));

- CHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));
- hash_active = true;
-
  CHECK(dst_lib_init(mctx, ectx, ISC_ENTROPY_BLOCKING));

```

```

dst_active = true;

+ CHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));
+ hash_active = true;
+
CHECK(isc_log_create(mctx, &lctx, &logconfig));
isc_log_registercategories(lctx, categories);
isc_log_setcontext(lctx);
diff --git a/bin/tests/system/pipelined/pipequeries.c b/bin/tests/system/pipelined/pipequeries.c
index e16ec11..95b65bf 100644
--- a/bin/tests/system/pipelined/pipequeries.c
+++ b/bin/tests/system/pipelined/pipequeries.c
@@ -204,6 +204,7 @@ sendqueries(isc_task_t *task, isc_event_t *event) {

int
main(int argc, char *argv[]) {
+ char *randomfile = NULL;
isc_sockaddr_t bind_any;
struct in_addr inaddr;
isc_result_t result;
@@ -222,7 +223,7 @@ main(int argc, char *argv[]) {
int c;

isc_commandline_errprint = false;
- while ((c = isc_commandline_parse(argc, argv, "p:") != -1) {
+ while ((c = isc_commandline_parse(argc, argv, "p:r:") != -1) {
switch (c) {
case 'p':
result = isc_parse_uint16(&port,
@@ -233,6 +234,9 @@ main(int argc, char *argv[])
{
exit(1);
}
break;
+ case 'r':
+ randomfile = isc_commandline_argument;
+ break;
case '?':
fprintf(stderr, "%s: invalid argument '%c'",
argv[0], c);
@@ -275,10 +279,18 @@ main(int argc, char *argv[]) {

ectx = NULL;
RUNCHECK(isc_entropy_create(mctx, &ectx));
- RUNCHECK(isc_entropy_createfilesouce(ectx, "../random.data"));
- RUNCHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));
#ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (randomfile != NULL &&

```

```

+ strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
+ randomfile = NULL;
+ isc_entropy_usehook(ectx, true);
+ }
+#endif
+ if (randomfile != NULL)
+ RUNCHECK(isc_entropy_createfilesource(ectx, randomfile));

RUNCHECK(dst_lib_init(mctx, ectx, ISC_ENTROPY_GOODONLY));
+ RUNCHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));

taskmgr = NULL;
RUNCHECK(isc_taskmgr_create(mctx, 1, 0, &taskmgr));
@@ -331,8 +343,8 @@ main(int argc, char *argv[]) {
isc_task_detach(&task);
isc_taskmgr_destroy(&taskmgr);

- dst_lib_destroy();
isc_hash_destroy();
+ dst_lib_destroy();
isc_entropy_detach(&ectx);

isc_log_destroy(&lctx);
diff --git a/bin/tests/system/pipelined/tests.sh b/bin/tests/system/pipelined/tests.sh
index c0a99a2..0245527 100644
--- a/bin/tests/system/pipelined/tests.sh
+++ b/bin/tests/system/pipelined/tests.sh
@@ -19,7 +19,7 @@ status=0

echo_i "check pipelined TCP queries"
ret=0
-$PIPEQUERIES -p ${PORT} < input > raw || ret=1
+$PIPEQUERIES -p ${PORT} -r $RANDFILE < input > raw || ret=1
awk '{ print $1 " " $5 }' < raw > output
sort < output > output-sorted
$DIFF ref output-sorted || { ret=1 ; echo_i "diff sorted failed"; }
@@ -43,7 +43,7 @@ status=`expr $status + $ret`

echo_i "check keep-response-order"
ret=0
-$PIPEQUERIES -p ${PORT} ++ < inputb > rawb || ret=1
+$PIPEQUERIES -p ${PORT} -r $RANDFILE ++ < inputb > rawb || ret=1
awk '{ print $1 " " $5 }' < rawb > outputb
$DIFF refb outputb || ret=1
if [ $ret != 0 ]; then echo_i "failed"; fi
diff --git a/bin/tests/system/rsabigexponent/bigkey.c
b/bin/tests/system/rsabigexponent/bigkey.c
index abf12ed..fa5182c 100644

```

```

--- a/bin/tests/system/rsabigexponent/bigkey.c
+++ b/bin/tests/system/rsabigexponent/bigkey.c
@@ -20,6 +20,7 @@
#include <isc/buffer.h>
#include <isc/entropy.h>
#include <isc/mem.h>
+#include <isc/platform.h>
#include <isc/print.h>
#include <isc/region.h>
#include <isc/stdio.h>
@@ -183,6 +184,9 @@ main(int argc, char **argv) {

CHECK(isc_mem_create(0, 0, &mctx, "isc_mem_create()");
CHECK(isc_entropy_create(mctx, &ectx, "isc_entropy_create()");
+#ifdef ISC_PLATFORM_CRYPTORANDOM
+ isc_entropy_usehook(ectx, true);
+#endif
CHECK(isc_entropy_usebestsource(ectx, &source,
    "./random.data",
    ISC_ENTROPY_KEYBOARDNO),
diff --git a/bin/tests/system/tkey/keycreate.c b/bin/tests/system/tkey/keycreate.c
index 34360aa..3236968 100644
--- a/bin/tests/system/tkey/keycreate.c
+++ b/bin/tests/system/tkey/keycreate.c
@@ -206,6 +206,7 @@ sendquery(isc_task_t *task, isc_event_t
 *event) {
int
main(int argc, char *argv[]) {
char *ourkeyname;
+ char *randomfile;
isc_taskmgr_t *taskmgr;
isc_timermgr_t *timermgr;
isc_socketmgr_t *socketmgr;
@@ -225,10 +226,21 @@ main(int argc, char *argv[]) {

RUNCHECK(isc_app_start());

+ randomfile = NULL;
+
+ if (argc < 2) {
+ fprintf(stderr, "I:no DH key provided\n");
+ exit(-1);
+ }
+ if (strcmp(argv[1], "-r") == 0) {
+ if (argc < 4) {
+ fprintf(stderr, "I:no DH key provided\n");
+ exit(-1);
+ }

```



```

+ randomfile = argv[2];
+ argv += 2;
+ argc -= 2;
+ }
ourkeyname = argv[1];

if (argc >= 3)
@@ -242,14 +254,22 @@ main(int argc, char *argv[]) {

ectx = NULL;
RUNCHECK(isc_entropy_create(mctx, &ectx));
- RUNCHECK(isc_entropy_createfilesouce(ectx, "../random.data"));
- RUNCHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));
+#ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (randomfile != NULL &&
+     strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
+ randomfile = NULL;
+ isc_entropy_usehook(ectx,
+ true);
+ }
+#endif
+ if (randomfile != NULL)
+ RUNCHECK(isc_entropy_createfilesouce(ectx, randomfile));

log = NULL;
logconfig = NULL;
RUNCHECK(isc_log_create(mctx, &log, &logconfig));

RUNCHECK(dst_lib_init(mctx, ectx, ISC_ENTROPY_GOODONLY));
+ RUNCHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));

taskmgr = NULL;
RUNCHECK(isc_taskmgr_create(mctx, 1, 0, &taskmgr));
@@ -328,8 +348,8 @@ main(int argc, char *argv[]) {

isc_log_destroy(&log);

- dst_lib_destroy();
isc_hash_destroy();
+ dst_lib_destroy();
isc_entropy_detach(&ectx);

isc_mem_destroy(&mctx);
diff --git a/bin/tests/system/tkey/keydelete.c b/bin/tests/system/tkey/keydelete.c
index a3dd450..350723f 100644
--- a/bin/tests/system/tkey/keydelete.c
+++ b/bin/tests/system/tkey/keydelete.c
@@ -137,6 +137,7 @@ sendquery(isc_task_t *task, isc_event_t *event) {

```

```

int
main(int argc, char **argv) {
    char *keyname;
+ char *randomfile;
    isc_taskmgr_t *taskmgr;
    isc_timermgr_t *timermgr;
    isc_socketmgr_t
    *socketmgr;
@@ -157,10 +158,21 @@ main(int argc, char **argv) {

    RUNCHECK(isc_app_start());

+ randomfile = NULL;
+
    if (argc < 2) {
        fprintf(stderr, "I:no key to delete\n");
        exit(-1);
    }
+ if (strcmp(argv[1], "-r") == 0) {
+ if (argc < 4) {
+ fprintf(stderr, "I:no DH key provided\n");
+ exit(-1);
+ }
+ randomfile = argv[2];
+ argv += 2;
+ argc -= 2;
+ }
    keyname = argv[1];

    dns_result_register();
@@ -170,14 +182,22 @@ main(int argc, char **argv) {

    ectx = NULL;
    RUNCHECK(isc_entropy_create(mctx, &ectx));
- RUNCHECK(isc_entropy_createfilesouce(ectx, "../random.data"));
- RUNCHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));
+ #ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (randomfile != NULL &&
+     strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
+ randomfile = NULL;
+ isc_entropy_usehook(ectx, true);
+ }
+ #endif
+ if (randomfile != NULL)
+ RUNCHECK(isc_entropy_createfilesouce(ectx, randomfile));

    log = NULL;
    logconfig = NULL;

```

```

RUNCHECK(isc_log_create(mctx,
&log, &logconfig));

RUNCHECK(dst_lib_init(mctx, ectx, ISC_ENTROPY_GOODONLY));
+ RUNCHECK(isc_hash_create(mctx, ectx, DNS_NAME_MAXWIRE));

taskmgr = NULL;
RUNCHECK(isc_taskmgr_create(mctx, 1, 0, &taskmgr));
@@ -265,8 +285,8 @@ main(int argc, char **argv) {

isc_log_destroy(&log);

- dst_lib_destroy();
isc_hash_destroy();
+ dst_lib_destroy();
isc_entropy_detach(&ectx);

isc_mem_destroy(&mctx);
diff --git a/bin/tests/system/tkey/tests.sh b/bin/tests/system/tkey/tests.sh
index b265156..bcd60a6 100644
--- a/bin/tests/system/tkey/tests.sh
+++ b/bin/tests/system/tkey/tests.sh
@@ -33,7 +33,7 @@ for owner in . foo.example.
do
echo_i "creating new key using owner name \"$owner\" ($n)"
ret=0
- keyname=`$KEYCREATE $dhkeyname $owner` || ret=1
+ keyname=`$KEYCREATE -r $RANDFILE $dhkeyname $owner` || ret=1
if [ $ret != 0 ]; then
echo_i "failed"
status=$((status+ret))
@@ -57,7 +57,7 @@ do

echo_i "deleting new key ($n)"
ret=0
- $KEYDELETE $keyname ||
ret=1
+ $KEYDELETE -r $RANDFILE $keyname || ret=1
if [ $ret != 0 ]; then
echo_i "failed"
fi
@@ -79,7 +79,7 @@ done

echo_i "creating new key using owner name bar.example. ($n)"
ret=0
- keyname=`$KEYCREATE $dhkeyname bar.example.` || ret=1
+ keyname=`$KEYCREATE -r $RANDFILE $dhkeyname bar.example.` || ret=1
if [ $ret != 0 ]; then

```

```

    echo_i "failed"
    status=$((status+ret))
    @@ -124,7 +124,7 @@ n=$((n+1))

echo_i "recreating the bar.example. key ($n)"
ret=0
-keyname=`$KEYCREATE $dhkeyname bar.example.` || ret=1
+keyname=`$KEYCREATE -r $RANDFILE $dhkeyname bar.example.` || ret=1
if [ $ret != 0 ]; then
    echo_i "failed"
    status=$((status+ret))
diff --git a/bin/tools/mdig.c b/bin/tools/mdig.c
index 26fa609..fb34aa0 100644
--- a/bin/tools/mdig.c
+++ b/bin/tools/mdig.c
@@ -2005,12 +2005,11 @@ main(int argc, char *argv[]) {

    ectx = NULL;
    RUNCHECK(isc_entropy_create(mctx, &ectx));
+ RUNCHECK(dst_lib_init(mctx, ectx, ISC_ENTROPY_GOODONLY));
    RUNCHECK(isc_hash_create(mctx,
    ectx, DNS_NAME_MAXWIRE));
    RUNCHECK(isc_entropy_getdata(ectx, cookie_secret,
        sizeof(cookie_secret), NULL, 0));

- RUNCHECK(dst_lib_init(mctx, ectx, ISC_ENTROPY_GOODONLY));
-
    ISC_LIST_INIT(queries);
    parse_args(false, argc, argv);
    if (server == NULL)
diff --git a/configure b/configure
index 368112f..e060e9d 100755
--- a/configure
+++ b/configure
@@ -640,6 +640,7 @@ ac_includes_default="\

ac_subst_vars=LTLIBOBJS
LIBOBJS
+LIBDIR_SUFFIX
BUILD_LIBS
BUILD_LDFLAGS
BUILD_CPPFLAGS
@@ -822,6 +823,7 @@ LIBXML2_CFLAGS
NZDTARGETS
NZDSRCS
NZD_TOOLS
+ISC_PLATFORM_CRYPTORANDOM
PKCS11_TEST

```

```

PKCS11_ED25519
PKCS11_GOST
@@ -1046,6 +1048,7 @@ with_eddsa
with_aes
enable_openssl_hash
with_cc_alg
+enable_crypto_rand
with_lmdb
with_libxml2
with_libjson
@@ -1747,6 +1750,7 @@ Optional Features:
--enable-threads    enable multithreading
--enable-native-pkcs11 use native PKCS11 for all crypto [default=no]
--enable-openssl-hash use OpenSSL for hash functions
[default=no]
+ --enable-crypto-rand use the crypto provider for random [default=yes]
--enable-largefile  64-bit file support
--enable-backtrace  log stack backtrace on abort [default=yes]
--enable-symtable   use internal symbol table for backtrace
@@ -17204,6 +17208,7 @@ case "$use_openssl" in
$as_echo "disabled because of native PKCS11" >&6; }
  DST_OPENSSL_INC=""
  CRYPTO="-DPKCS11CRYPTO"
+ CRYPTOLIB="pkcs11"
  OPENSSECDALINKOBS=""
  OPENSSECDALINKSRCS=""
  OPENSSEDDALINKOBS=""
@@ -17218,6 +17223,7 @@ $as_echo "disabled because of native PKCS11" >&6; }
$as_echo "no" >&6; }
  DST_OPENSSL_INC=""
  CRYPTO=""
+ CRYPTOLIB=""
  OPENSSECDALINKOBS=""
  OPENSSECDALINKSRCS=""
  OPENSSEDDALINKOBS=""
@@ -17230,6 +17236,7 @@ $as_echo "no" >&6; }
auto)
  DST_OPENSSL_INC=""
  CRYPTO=""
+ CRYPTOLIB=""
  OPENSSECDALINKOBS=""
  OPENSSECDALINKSRCS=""
  OPENSSEDDALINKOBS=""
@@ -17239,7 +17246,7 @@ $as_echo "no" >&6; }
  OPENSLLINKOBS=""
  OPENSLLINKSRCS=""
  as_fn_error $? "OpenSSL was not found in any of $openssldirs; use --with-openssl=/path
-If you don't want OpenSSL, use --without-openssl" "$LINENO" 5

```

```

+If you do not want OpenSSL, use --without-openssl" "$LINENO" 5
;;
*)
if test "yes" = "$want_native_pkcs11"
@@ -17270,6 +17277,7 @@ $as_echo "not found" >&6; }
as_fn_error $? "\"$use_openssl/include/openssl/opensslv.h\" not found" "$LINENO" 5
fi
CRYPTO='-DOPENSSL'
+ CRYPTOLIB="openssl"
if test "/usr" = "$use_openssl"
then
DST_OPENSSL_INC=""
@@ -17904,8 +17912,6 @@ fi
# Use OpenSSL for hash functions
#

- { $as_echo "$as_me:${as_lineno-$LINENO}: checking for using OpenSSL for hash functions" >&5
-$as_echo_n "checking for using OpenSSL for hash functions... " >&6; }
ISC_PLATFORM_OPENSSLHASH="#undef ISC_PLATFORM_OPENSSLHASH"
case $want_openssl_hash in
yes)
@@ -18280,6 +18286,86 @@ if test "rt" = "$have_clock_gt"; then
LIBS="-lrt $LIBS"
fi

+#
+# Use the crypto provider
+(OpenSSL/PKCS#11) for random functions
+#
+
+ { $as_echo "$as_me:${as_lineno-$LINENO}: checking for using the crypto library (vs. builtin) for random
functions" >&5
+$as_echo_n "checking for using the crypto library (vs. builtin) for random functions... " >&6; }
+# Check whether --enable-crypto-rand was given.
+if test "${enable_crypto_rand+set}" = set; then :
+ enableval=$enable_crypto_rand; want_crypto_rand="$enableval"
+else
+ want_crypto_rand="auto"
+fi
+
+
+if test "$want_crypto_rand" = "auto"
+then
+ case "$CRYPTOLIB" in
+ "")
+ want_crypto_rand="no"
+ ;;
+ pkcs11)
+ want_crypto_rand="yes"

```

```

+ ;;
+ openssl)
+ saved_cflags="$CFLAGS"
+ saved_libs="$LIBS"
+ CFLAGS="$CFLAGS $DST_OPENSSL_INC"
+ LIBS="$LIBS $DST_OPENSSL_LIBS"
+ if test "$cross_compiling" = yes; then :
+ want_crypto_rand="yes"
+else
+ cat confdefs.h - <<_ACEOF >conftest.$ac_ext
+/* end confdefs.h. */
+
+#include <openssl/rand.h>
+
+unsigned char buf[128];
+
+int main()
+{
+ if (RAND_bytes(buf, 128) != 1)
+ return
+ (1);
+ return (0);
+}
+
+_ACEOF
+if ac_fn_c_try_run "$LINENO"; then :
+ want_crypto_rand="yes"
+else
+ want_crypto_rand="no"
+fi
+rm -f core *.core core.conftest.* gmon.out bb.out conftest.$ac_exeext \
+ conftest.$ac_objext conftest.beam conftest.$ac_ext
+fi
+
+ CFLAGS="$saved_cflags"
+ LIBS="$saved_libs"
+ ;;
+ *)
+ as_fn_error $? "Unknown crypto library define $CRYPTOLIB" "$LINENO" 5
+ ;;
+ esac
+fi
+case $want_crypto_rand in
+ yes)
+ if test "$CRYPTOLIB" = ""
+ then
+ as_fn_error $? "No crypto library for random functions" "$LINENO" 5
+ fi

```

```

+ { $as_echo "$as_me:${as_lineno-$LINENO}: result: \"\$CRYPTOLIB\" >&5
+$as_echo "\"\$CRYPTOLIB\" >&6; }
+ ISC_PLATFORM_CRYPTORANDOM="#define ISC_PLATFORM_CRYPTORANDOM \"\$CRYPTOLIB\"
+ ;;
+ no)
+ { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
+$as_echo "no" >&6; }
+ ISC_PLATFORM_CRYPTORANDOM="#undef ISC_PLATFORM_CRYPTORANDOM"
+ ;;
+esac
+
+
#
# was --with-lmdb specified?
#
@@ -20556,9 +20642,12 @@ _ACEOF
if ac_fn_c_try_compile
"$LINENO"; then :
  { $as_echo "$as_me:${as_lineno-$LINENO}: result: size_t for buflen; int for flags" >&5
$as_echo "size_t for buflen; int for flags" >&6; }
- $as_echo "#define IRS_GETNAMEINFO_SOCKLEN_T size_t" >>confdefs.h
+ # Changed to solve multilib conflict on Fedora
+ # AC_DEFINE(IRS_GETNAMEINFO_SOCKLEN_T, size_t)
+ # AC_DEFINE(IRS_GETNAMEINFO_BUFLLEN_T, size_t)
+ $as_echo "#define IRS_GETNAMEINFO_SOCKLEN_T socklen_t" >>confdefs.h

- $as_echo "#define IRS_GETNAMEINFO_BUFLLEN_T size_t" >>confdefs.h
+ $as_echo "#define IRS_GETNAMEINFO_BUFLLEN_T socklen_t" >>confdefs.h

$as_echo "#define IRS_GETNAMEINFO_FLAGS_T int" >>confdefs.h

@@ -21856,12 +21945,7 @@ ISC_PLATFORM_USEGCCASM="#undef ISC_PLATFORM_USEGCCASM"
ISC_PLATFORM_USESTDASM="#undef ISC_PLATFORM_USESTDASM"
ISC_PLATFORM_USEMACASM="#undef ISC_PLATFORM_USEMACASM"
if test "yes" = "$use_atomic"; then
- have_atomic=yes # set default
- case "$host" in
- i[3456]86-*)
- # XXX: some old x86 architectures
actually do not support
- # (some of) these operations. Do we need stricter checks?
- # The cast to long int works around a bug in the HP C Compiler
+ # The cast to long int works around a bug in the HP C Compiler
# version HP92453-01 B.11.11.23709.GP, which incorrectly rejects
# declarations like `int a3[[(sizeof (unsigned char)) >= 0]];'.
# This bug is HP SR number 8606223364.
@@ -21894,6 +21978,11 @@ cat >>confdefs.h <<_ACEOF
_ACEOF

```



```

+ have_atomic=yes # set default
+ case "$host" in
+ i[3456]86-*)
+ # XXX: some old x86 architectures actually do not support
+ #   (some of) these operations. Do we need stricter checks?
  if test $ac_cv_sizeof_void_p = 8; then
    arch=x86_64
    have_xaddq=yes
@@ -21902,39 +21991,6 @@ _ACEOF
  fi
;;
x86_64-*)amd64-*)
- # The cast to long int works around a bug in the HP C Compiler
-# version HP92453-01 B.11.11.23709.GP, which incorrectly rejects
-# declarations like `int a3[[(sizeof (unsigned char)) >= 0]];'.
-# This bug
  is HP SR number 8606223364.
- { $as_echo "$as_me:${as_lineno-$LINENO}: checking size of void *" >&5
- $as_echo_n "checking size of void *... " >&6; }
- if ${ac_cv_sizeof_void_p+:} false; then :
-   $as_echo_n "(cached) " >&6
- else
-   if ac_fn_c_compute_int "$LINENO" "(long int) (sizeof (void *))" "ac_cv_sizeof_void_p"
"$ac_includes_default"; then :
-
- else
-   if test "$ac_cv_type_void_p" = yes; then
-     { $as_echo "$as_me:${as_lineno-$LINENO}: error: in `\$ac_pwd':" >&5
- $as_echo "$as_me: error: in `\$ac_pwd':" >&2;}
- as_fn_error 77 "cannot compute sizeof (void *)"
- See `config.log' for more details" "$LINENO" 5; }
-   else
-     ac_cv_sizeof_void_p=0
-   fi
- fi
- fi
- { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_sizeof_void_p" >&5
- $as_echo "$ac_cv_sizeof_void_p" >&6; }
-
-
-
- cat >>confdefs.h <<_ACEOF
-#define SIZEOF_VOID_P $ac_cv_sizeof_void_p
- _ACEOF
-

```

```

-
if test $ac_cv_sizeof_void_p = 8; then
  arch=x86_64
  have_xaddq=yes
@@ -21965,6 +22021,10 @@ $as_echo_n
"checking architecture type for atomic operations... " >&6; }
$as_echo "$sarch" >&6; }
fi

+if test ! "$sarch" = "x86_64" -a "$shave_xaddq" = "yes"; then
+ as_fn_error $? "XADDQ present but disabled by Fedora patch!" "$LINENO" 5
+fi
+
+
if test "yes" = "$shave_atomic"; then
  { $as_echo "$as_me:${as_lineno-$LINENO}: checking compiler support for inline assembly code" >&5
$as_echo_n "checking compiler support for inline assembly code... " >&6; }
@@ -24547,6 +24607,30 @@ CFLAGS="$CFLAGS $SO_CFLAGS"
#
dlzdir='${DLZ_DRIVER_DIR}'

+{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for target libdir" >&5
+$as_echo_n "checking for target libdir... " >&6; }
+if test "$cross_compiling" = yes; then :
+ { { $as_echo "$as_me:${as_lineno-$LINENO}: error: in ` $ac_pwd':" >&5
+$as_echo "$as_me: error: in ` $ac_pwd':" >&2;}
+as_fn_error $? "cannot run test program while cross compiling
+See `config.log' for more details" "$LINENO" 5; }
+else
+ cat confdefs.h - <<_ACEOF >conftest.$ac_ext
+/* end
confdefs.h. */
+int main(void) {exit((sizeof(void *) == 8) ? 0 : 1);}
+_ACEOF
+if ac_fn_c_try_run "$LINENO"; then :
+ target_lib=lib64
+else
+ target_lib=lib
+fi
+rm -f core *.core core.conftest.* gmon.out bb.out conftest$ac_exeext \
+ conftest.$ac_objext conftest.beam conftest.$ac_ext
+fi
+
+
+{ $as_echo "$as_me:${as_lineno-$LINENO}: result: \"$target_lib\"" >&5
+$as_echo "\"$target_lib\"" >&6; }
+
#
# Private autoconf macro to simplify configuring drivers:
#

```

```

@@ -24877,11 +24961,11 @@ $as_echo "no" >&6; }
$as_echo "using mysql with libs ${mysql_lib} and includes ${mysql_include}" >&6; }
;;
*)
- if test -d "$use_dlz_mysql/lib/mysql"
+ if test -d $use_dlz_mysql/${target_lib}/mysql
  then
- mysql_lib="$use_dlz_mysql/lib/mysql"
+ mysql_lib=$use_dlz_mysql/${target_lib}/mysql
  else
- mysql_lib="$use_dlz_mysql/lib"
+ mysql_lib=$use_dlz_mysql/${target_lib}
  fi

CONTRIB_DLZ="$CONTRIB_DLZ -DDLZ_MYSQL"
@@ -24966,7 +25050,7 @@ $as_echo "" >&6; }
  # Check other locations
for includes.
  # Order is important (sigh).

- bdb_incdirs="/db53 /db51 /db48 /db47 /db46 /db45 /db44 /db43 /db42 /db41 /db4 /db"
+ bdb_incdirs="/db53 /db51 /db48 /db47 /db46 /db45 /db44 /db43 /db42 /db41 /db4 /libdb /db"
  # include a blank element first
  for d in "" $bdb_incdirs
  do
@@ -24991,57 +25075,9 @@ $as_echo "" >&6; }
  bdb_libnames="db53 db-5.3 db51 db-5.1 db48 db-4.8 db47 db-4.7 db46 db-4.6 db45 db-4.5 db44 db-4.4 db43 db-
4.3 db42 db-4.2 db41 db-4.1 db"
  for d in $bdb_libnames
  do
- if test "$dd" = "/usr"
- then
- as_ac_Lib=`$as_echo "ac_cv_lib_$d_db_create" | $as_tr_sh`
-{$ as_echo "$as_me:${as_lineno-$LINENO}: checking for db_create in -l$d" >&5
-$as_echo_n "checking for db_create in -l$d... " >&6; }
-if eval `:${as_ac_Lib+:} false; then :
- $as_echo_n "(cached) " >&6
-else
- ac_check_lib_save_LIBS=$LIBS
-LIBS="-l$d $LIBS"
-cat confdefs.h - <<_ACEOF >>conftest.$ac_ext
-/* end confdefs.h. */
-
-/* Override any GCC internal prototype
to avoid an error.
- Use char because int might match the return type of a GCC
- builtin and then its argument prototype would still apply. */
-#ifdef __cplusplus

```

```

-extern "C"
-#endif
-char db_create ();
-int
-main ()
-{
-return db_create ();
- ;
- return 0;
-}
-_ACEOF
-if ac_fn_c_try_link "$LINENO"; then :
- eval "$as_ac_Lib=yes"
-else
- eval "$as_ac_Lib=no"
-fi
-rm -f core conftest.err conftest.$ac_objext \
- conftest$ac_exeext conftest.$ac_ext
-LIBS=$ac_check_lib_save_LIBS
-fi
-eval ac_res=\$as_ac_Lib
- { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_res" >&5
-$as_echo "$ac_res" >&6; }
-if eval test `x"$as_ac_Lib"` = x"yes"; then :
- dlz_bdb_libs="-l${d}"
-fi
-
- if test $dlz_bdb_libs != "yes"
- then
- break
- fi
- elif test -f "$dd/lib/lib${d}.so"
+ if test -f "$dd/${target_lib}/lib${d}.so"
then
- dlz_bdb_libs="-L${dd}/lib -l${d}"
+ dlz_bdb_libs="-L${dd}/${target_lib}/libdb -l${d}"
break
fi
done
@@
-25200,10 +25236,10 @@ $as_echo "no" >&6; }
DLZ_DRIVER_INCLUDES="$DLZ_DRIVER_INCLUDES -I$use_dlz_ldap/include"
DLZ_DRIVER_LDAP_INCLUDES="-I$use_dlz_ldap/include"
fi
- if test -n "-L$use_dlz_ldap/lib -lldap -llber"
+ if test -n "-L$use_dlz_ldap/${target_lib} -lldap -llber"
then
- DLZ_DRIVER_LIBS="$DLZ_DRIVER_LIBS -L$use_dlz_ldap/lib -lldap -llber"

```

```

- DLZ_DRIVER_LDAP_LIBS="-L$use_dlz_ldap/lib -lldap -llber"
+ DLZ_DRIVER_LIBS="$DLZ_DRIVER_LIBS -L$use_dlz_ldap/${target_lib} -lldap -llber"
+ DLZ_DRIVER_LDAP_LIBS="-L$use_dlz_ldap/${target_lib} -lldap -llber"
fi

```

```

@@ -25289,11 +25325,11 @@ fi
odbcdirs="/usr /usr/local /usr/pkg"
for d in $odbcdirs
do
- if test -f $d/include/sql.h -a -f $d/lib/libodbc.a
+ if test -f $d/include/sql.h -a -f $d/${target_lib}/libodbc.a
then
use_dlz_odbc=$d
dlz_odbc_include="-I$use_dlz_odbc/include"
- dlz_odbc_libs="-L$use_dlz_odbc/lib -lodbc"
+ dlz_odbc_libs="-L$use_dlz_odbc/${target_lib} -lodbc"
break
fi
done
@@ -25568,6 +25604,8 @@ DNS_CRYPTOLIBS="$NEWFLAGS"

```

```

+
+
#
# Commands to run at the end of config.status.
# Don't just put these into configure, it won't work right if somebody
@@ -27946,6 +27984,8 @@ report() {
echo " IPv6 support (--enable-ipv6)"
test "X$CRYPTO" = "X" -o "yes" = "$want_native_pkcs11" || \
echo " OpenSSL cryptography/DNSSEC (--with-openssl)"
+ test "no" = "$want_crypto_rand" || \
+ echo " Crypto provider entropy source (--enable-crypto-rand)"
test "X$PYTHON" = "X" || echo " Python tools (--with-python)"
test "X$XMLSTATS" = "X" || echo " XML statistics (--with-libxml2)"
test "X$JSONSTATS" = "X" || echo " JSON statistics (--with-libjson)"
@@ -27986,6 +28026,8 @@ report() {
echo " Very verbose query trace logging (--enable-querytrace)"
test "no" = "$with_cmocka" || echo " CMocka Unit Testing Framework (--with-cmocka)"

+ echo " Cryptographic library for DNSSEC: $CRYPTOLIB"
+

echo " Dynamically loadable zone (DLZ) drivers:"
test "no" = "$use_dlz_bdb" || \
echo " Berkeley DB (--with-dlz-bdb)"

```

```

@@ -28033,6 +28075,8 @@ report() {
echo "  ECDSA algorithm support (--with-ecdsa)"
  test "X$CRYPTO" = "X" -o "yes" = "$OPENSSL_ED25519" -o "yes" = "$PKCS11_ED25519" || \
echo "  EDDSA algorithm support (--with-eddsa)"
+ test "yes" = "$want_crypto_rand" || \
+   echo "  Crypto provider entropy source (--enable-crypto-rand)"

  test "yes" = "$enable_seccomp" || \
echo "  Use libseccomp system call filtering (--enable-seccomp)"
diff --git a/configure.ac b/configure.ac
index 11f41e8..fdcf62 100644
--- a/configure.ac
+++ b/configure.ac
@@ -1600,6 +1600,7 @@ case "$use_openssl" in
  AC_MSG_RESULT(disabled because of native PKCS11)
  DST_OPENSSL_INC=""
  CRYPTO="-DPKCS11CRYPTO"
+ CRYPTOLIB="pkcs11"
  OPENSSLECDALINKOBS=""
  OPENSSLECDALINKSRCS=""
  OPENSSLEDDALINKOBS=""
@@ -1613,6 +1614,7 @@ case "$use_openssl" in
  AC_MSG_RESULT(no)
  DST_OPENSSL_INC=""
  CRYPTO=""
+ CRYPTOLIB=""
  OPENSSLECDALINKOBS=""
  OPENSSLECDALINKSRCS=""
  OPENSSLEDDALINKOBS=""
@@ -1625,6 +1627,7 @@ case "$use_openssl" in
auto)
  DST_OPENSSL_INC=""
  CRYPTO=""
+ CRYPTOLIB=""
  OPENSSLECDALINKOBS=""
  OPENSSLECDALINKSRCS=""
  OPENSSLEDDALINKOBS=""
@@ -1635,7 +1638,7 @@ case "$use_openssl" in
  OPENSSLINKSRCS=""
  AC_MSG_ERROR(
[OpenSSL was not found in any of $openssldirs; use --with-openssl=/path
-If you don't want OpenSSL, use --without-openssl])
+If you do not want OpenSSL, use --without-openssl])
  ;;
*)
  if test "yes" = "$want_native_pkcs11"
@@ -1665,6 +1668,7 @@ If you don't want OpenSSL, use --without-openssl])
  AC_MSG_ERROR(["$use_openssl/include/openssl/opensslv.h" not found])

```

```

fi
CRYPTO='-DOPENSSL'
+ CRYPTOLIB="openssl"
if test "/usr" = "$use_openssl"
then
  DST_OPENSSL_INC=""
@@ -2109,7 +2113,6 @@ fi
# Use OpenSSL for hash functions
#

-AC_MSG_CHECKING(for using
OpenSSL for hash functions)
ISC_PLATFORM_OPENSSLHASH="#undef ISC_PLATFORM_OPENSSLHASH"
case $want_openssl_hash in
yes)
@@ -2381,6 +2384,67 @@ if test "rt" = "$have_clock_gt"; then
LIBS="-lrt $LIBS"
fi

+#
+# Use the crypto provider (OpenSSL/PKCS#11) for random functions
+#
+
+AC_MSG_CHECKING(for using the crypto library (vs. builtin) for random functions)
+AC_ARG_ENABLE(crypto-rand,
+ [ --enable-crypto-rand use the crypto provider for random [[default=yes]],
+ want_crypto_rand="$enableval", want_crypto_rand="auto")
+if test "$want_crypto_rand" = "auto"
+then
+ case "$CRYPTOLIB" in
+ "")
+ want_crypto_rand="no"
+ ;;
+ pkcs11)
+ want_crypto_rand="yes"
+ ;;
+ openssl)
+ saved_cflags="$CFLAGS"
+ saved_libs="$LIBS"
+ CFLAGS="$CFLAGS $DST_OPENSSL_INC"
+ LIBS="$LIBS $DST_OPENSSL_LIBS"
+ AC_TRY_RUN([
+#include <openssl/rand.h>
+
+unsigned char buf[128];
+
+int main()
+{

```

```

+ if (RAND_bytes(buf, 128) != 1)
+ return (1);
+ return (0);
+}
+],
+ [want_crypto_rand="yes"],
+ [want_crypto_rand="no"],
+ [want_crypto_rand="yes"])
+ CFLAGS="$saved_cflags"
+ LIBS="$saved_libs"
+ ;;
+ *)
+ AC_MSG_ERROR([Unknown
crypto library define $CRYPTOLIB])
+ ;;
+ esac
+fi
+case $want_crypto_rand in
+ yes)
+ if test "$CRYPTOLIB" = ""
+ then
+ AC_MSG_ERROR([No crypto library for random functions])
+ fi
+ AC_MSG_RESULT(["$CRYPTOLIB"])
+ ISC_PLATFORM_CRYPTORANDOM="#define ISC_PLATFORM_CRYPTORANDOM \"$CRYPTOLIB\""
+ ;;
+ no)
+ AC_MSG_RESULT(no)
+ ISC_PLATFORM_CRYPTORANDOM="#undef ISC_PLATFORM_CRYPTORANDOM"
+ ;;
+esac
+AC_SUBST(ISC_PLATFORM_CRYPTORANDOM)
+
#
# was --with-lmdb specified?
#
@@ -4174,12 +4238,12 @@ ISC_PLATFORM_USEGCCASM="#undef ISC_PLATFORM_USEGCCASM"
ISC_PLATFORM_USESTDASM="#undef ISC_PLATFORM_USESTDASM"
ISC_PLATFORM_USEMACASM="#undef ISC_PLATFORM_USEMACASM"
if test "yes" = "$use_atomic"; then
+ AC_CHECK_SIZEOF([void *])
have_atomic=yes # set default
case "$host" in
[i[3456]86-]*)
# XXX: some old x86 architectures actually do not
support
# (some of) these operations. Do we need stricter checks?
- AC_CHECK_SIZEOF([void *])

```



```

if test $ac_cv_sizeof_void_p = 8; then
  arch=x86_64
  have_xaddq=yes
@@ -4188,7 +4252,6 @@ if test "yes" = "$use_atomic"; then
  fi
;;
x86_64-*|amd64-*)
- AC_CHECK_SIZEOF([void *])
if test $ac_cv_sizeof_void_p = 8; then
  arch=x86_64
  have_xaddq=yes
@@ -5622,6 +5685,8 @@ report() {
  echo " IPv6 support (--enable-ipv6)"
test "X$CRYPTO" = "X" -o "yes" = "$want_native_pkcs11" || \
  echo " OpenSSL cryptography/DNSSEC (--with-openssl)"
+ test "no" = "$want_crypto_rand" || \
+   echo " Crypto provider entropy source (--enable-crypto-rand)"
test "X$PYTHON" = "X" || echo " Python tools (--with-python)"
test "X$XMLSTATS" = "X" || echo " XML statistics (--with-libxml2)"
test "X$JSONSTATS" = "X" || echo " JSON statistics (--with-libjson)"
@@ -5662,6 +5727,8 @@ report() {
  echo " Very verbose query trace logging (--enable-querytrace)"
  test "no" = "$with_cmocka" || echo " CMocka Unit Testing Framework (--with-cmocka)"

+ echo " Cryptographic library for DNSSEC: $CRYPTOLIB"
+
  echo " Dynamically loadable zone (DLZ) drivers:"
  test "no" = "$use_dlz_bdb" || \
  echo " Berkeley DB (--with-dlz-bdb)"
@@ -5709,6 +5776,8 @@ report() {
  echo " ECDSA algorithm support (--with-ecdsa)"
  test "X$CRYPTO" = "X" -o "yes" = "$OPENSSL_ED25519" -o "yes" = "$PKCS11_ED25519" || \
  echo " EDDSA algorithm support (--with-eddsa)"
+ test "yes" = "$want_crypto_rand" || \
+   echo " Crypto provider entropy source (--enable-crypto-rand)"

  test "yes" = "$enable_seccomp" || \
  echo " Use libseccomp system call filtering (--enable-seccomp)"
diff --git a/lib/dns/dst_api.c b/lib/dns/dst_api.c
index 7a86506..aa54afc 100644
--- a/lib/dns/dst_api.c
+++ b/lib/dns/dst_api.c
@@ -277,6 +277,12 @@ dst_lib_init2(isc_mem_t *mctx, isc_entropy_t *ectx,
#ifdef GSSAPI
  RETERR(dst__gssapi_init(&dst_t_func[DST_ALG_GSSAPI]));
#endif
+ #if defined(OPENSSL) || defined(PKCS11CRYPTO)
+ #ifdef ISC_PLATFORM_CRYPTORANDOM

```

```

+ if (dst_entropy_pool != NULL)
+ isc_entropy_sethook(dst_random_getdata);
+ #endif
+ #endif /* defined(OPENSSSL) || defined(PKCS11CRYPTO) */
dst_initialized = true;
return (ISC_R_SUCCESS);

@@ -296,11 +302,19 @@ dst_lib_destroy(void) {
for (i = 0; i < DST_MAX_ALGS; i++)
if (dst_t_func[i] != NULL && dst_t_func[i]->cleanup != NULL)
dst_t_func[i]->cleanup();
+ #if defined(OPENSSSL) || defined(PKCS11CRYPTO)
+ #ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (dst_entropy_pool != NULL) {
+ isc_entropy_usehook(dst_entropy_pool, false);
+ isc_entropy_sethook(NULL);
+ }
+ #endif
+ #ifdef OPENSSSL
dst__openssl_destroy();
+ #elif PKCS11CRYPTO
(void) dst__pkcs11_destroy();
+ #endif /* if OPENSSSL, elif PKCS11CRYPTO */
+ #endif /* defined(OPENSSSL) || defined(PKCS11CRYPTO) */
if (dst__memory_pool != NULL)
isc_mem_detach(&dst__memory_pool);
if (dst_entropy_pool
!= NULL)
@@ -2002,13 +2016,17 @@ dst__entropy_getdata(void *buf, unsigned int len, bool pseudo) {
flags &= ~ISC_ENTROPY_GOODONLY;
else
flags |= ISC_ENTROPY_BLOCKING;
+ #ifdef ISC_PLATFORM_CRYPTORANDOM
+ return (dst_random_getdata(buf, len, NULL, flags));
+ #else
return (isc_entropy_getdata(dst_entropy_pool, buf, len, NULL, flags));
+ #endif
+ #endif /* PKCS11CRYPTO */
}

unsigned int
dst__entropy_status(void) {
- #ifndef PKCS11CRYPTO
+ #if !defined(PKCS11CRYPTO) && !defined(ISC_PLATFORM_CRYPTORANDOM)
+ #ifdef GSSAPI
unsigned int flags = dst_entropy_flags;
isc_result_t ret;
@@ -2031,6 +2049,7 @@ dst__entropy_status(void) {

```

```

#endif
return (isc_entropy_status(dst_entropy_pool));
#else
+ /* Doesn't matter as it is not used in this case. */
return (0);
#endif
}
diff --git a/lib/dns/include/dst/dst.h b/lib/dns/include/dst/dst.h
index 5b42ab4..3aba028 100644
--- a/lib/dns/include/dst/dst.h
+++ b/lib/dns/include/dst/dst.h
@@ -159,6 +159,14 @@ dst_lib_destroy(void);
* Releases
all resources allocated by DST.
*/

+isc_result_t
+dst_random_getdata(void *data, unsigned int length,
+ unsigned int *returned, unsigned int flags);
+/*%<
+ * \brief Return data from the crypto random generator.
+ * Specialization of isc_entropy_getdata().
+ */
+
+
bool
dst_algorithm_supported(unsigned int alg);
/*%<
diff --git a/lib/dns/lib.c b/lib/dns/lib.c
index d9417de..0dc935d 100644
--- a/lib/dns/lib.c
+++ b/lib/dns/lib.c
@@ -16,6 +16,7 @@
#include <stdbool.h>
#include <stddef.h>

+#include <isc/entropy.h>
#include <isc/hash.h>
#include <isc/mem.h>
#include <isc/msgcat.h>
@@ -76,6 +77,7 @@ static unsigned int references = 0;
static void
initialize(void) {
isc_result_t result;
+ isc_entropy_t *ectx = NULL;

REQUIRE(initialize_done == false);

@@ -86,11 +88,14 @@ initialize(void) {

```

```

result = dns_ecdb_register(dns_g_mctx, &dbimp);
if (result != ISC_R_SUCCESS)
    goto cleanup_mctx;
- result = isc_hash_create(dns_g_mctx, NULL, DNS_NAME_MAXWIRE);
+ result
= isc_entropy_create(dns_g_mctx, &ectx);
if (result != ISC_R_SUCCESS)
    goto cleanup_db;
+ result = isc_hash_create(dns_g_mctx, NULL, DNS_NAME_MAXWIRE);
+ if (result != ISC_R_SUCCESS)
+ goto cleanup_ectx;

- result = dst_lib_init(dns_g_mctx, NULL, 0);
+ result = dst_lib_init(dns_g_mctx, ectx, 0);
if (result != ISC_R_SUCCESS)
    goto cleanup_hash;

@@ -98,11 +103,17 @@ initialize(void) {
if (result != ISC_R_SUCCESS)
    goto cleanup_dst;

+ isc_hash_init();
+ isc_entropy_detach(&ectx);
+
initialize_done = true;
return;

cleanup_dst:
dst_lib_destroy();
+ cleanup_ectx:
+ if (ectx != NULL)
+ isc_entropy_detach(&ectx);
cleanup_hash:
isc_hash_destroy();
cleanup_db:
diff --git a/lib/dns/openssl_link.c b/lib/dns/openssl_link.c
index 1e57c71..3f4f822 100644
--- a/lib/dns/openssl_link.c
+++ b/lib/dns/openssl_link.c
@@ -31,6 +31,7 @@
#include <isc/mem.h>
#include <isc/mutex.h>
#include <isc/mutexblock.h>
+#include <isc/platform.h>
#include <isc/string.h>
#include
<isc/thread.h>
#include <isc/util.h>

```

```

@@ -46,8 +47,6 @@
#include <openssl/engine.h>
#endif

-static RAND_METHOD *rm = NULL;
-
#if OPENSSSL_VERSION_NUMBER < 0x10100000L || defined(LIBRESSL_VERSION_NUMBER)
static isc_mutex_t *locks = NULL;
static int nlocks;
@@ -57,6 +56,9 @@ static int nlocks;
static ENGINE *e = NULL;
#endif

+#ifndef ISC_PLATFORM_CRYPTORANDOM
+static RAND_METHOD *rm = NULL;
+
static int
entropy_get(unsigned char *buf, int num) {
isc_result_t result;
@@ -102,6 +104,7 @@ entropy_add(const void *buf, int num, double entropy) {
return (1);
}
#endif
+#endif /* !ISC_PLATFORM_CRYPTORANDOM */

#if OPENSSSL_VERSION_NUMBER < 0x10100000L || defined(LIBRESSL_VERSION_NUMBER)
static void
@@ -192,7 +195,7 @@ _set_thread_id(CRYPTO_THREADID *id)
isc_result_t
dst__openssl_init(const char *engine) {
isc_result_t result;
-#if !defined(OPENSSSL_NO_ENGINE)
+#if !defined(OPENSSSL_NO_ENGINE) && !defined(ISC_PLATFORM_CRYPTORANDOM)
ENGINE *re;
#else
UNUSED(engine);
@@
-222,6 +225,7 @@ dst__openssl_init(const char *engine) {
ERR_load_crypto_strings();
#endif

+#ifndef ISC_PLATFORM_CRYPTORANDOM
rm = mem_alloc(sizeof(RAND_METHOD) FILELINE);
if (rm == NULL) {
result = ISC_R_NOMEMORY;
@@ -233,6 +237,7 @@ dst__openssl_init(const char *engine) {
rm->add = entropy_add;
rm->pseudorand = entropy_getpseudo;

```

```

rm->status = entropy_status;
+#endif

#if !defined(OPENSSSL_NO_ENGINE)
#if !defined(CONF_MFLAGS_DEFAULT_SECTION)
@@ -266,6 +271,7 @@ dst__openssl_init(const char *engine) {
    }
}

+#ifndef ISC_PLATFORM_CRYPTORANDOM
re = ENGINE_get_default RAND();
if (re == NULL) {
    re = ENGINE_new();
@@ -278,9 +284,21 @@ dst__openssl_init(const char *engine) {
    ENGINE_free(re);
} else
    ENGINE_finish(re);
+#endif
#else
+#ifndef ISC_PLATFORM_CRYPTORANDOM
RAND_set_rand_method(rm);
+#endif
#endif /* !defined(OPENSSSL_NO_ENGINE) */
+
+ /* Protect ourselves against unseeded PRNG */
+ if (RAND_status() != 1) {
+ FATAL_ERROR(__FILE__, __LINE__,
+
+ "OpenSSL pseudorandom number generator "
+ "cannot be initialized (see the `PRNG not "
+ "seeded' message in the OpenSSL FAQ)");
+ }
+
return (ISC_R_SUCCESS);

#if !defined(OPENSSSL_NO_ENGINE)
@@ -288,10 +306,14 @@ dst__openssl_init(const char *engine) {
if (e != NULL)
    ENGINE_free(e);
e = NULL;
+#ifndef ISC_PLATFORM_CRYPTORANDOM
mem_free(rm FILELINE);
rm = NULL;
#endif
+#endif
+#ifndef ISC_PLATFORM_CRYPTORANDOM
cleanup_mutexinit;
+#endif

```

```

#if OPENSSSL_VERSION_NUMBER < 0x10100000L || defined(LIBRESSL_VERSION_NUMBER)
CRYPTO_set_locking_callback(NULL);
DESTROYMUTEXBLOCK(locks, nlocks);
@@ -306,14 +328,17 @@ void
dst__openssl_destroy(void) {
#if !defined(LIBRESSL_VERSION_NUMBER) && (OPENSSSL_VERSION_NUMBER >= 0x10100000L)
OPENSSL_cleanup();
+#ifndef ISC_PLATFORM_CRYPTORANDOM
if (rm != NULL) {
mem_free(rm FILELINE);
rm = NULL;
}
+#endif
#else
/*
* Sequence taken from apps_shutdown() in <apps/apps.h>.
*/
+#ifndef ISC_PLATFORM_CRYPTORANDOM
if (rm != NULL) {
#if OPENSSSL_VERSION_NUMBER >= 0x00907000L
RAND_cleanup();
@@ -321,6 +346,7 @@ dst__openssl_destroy(void) {
mem_free(rm FILELINE);
rm = NULL;
}
+#endif
#if (OPENSSSL_VERSION_NUMBER >= 0x00907000L)
CONF_modules_free();
#endif
@@ -456,11 +482,45 @@ dst__openssl_getengine(const char *engine) {
}
#endif

-#else /* OPENSSSL */
+isc_result_t
+dst_random_getdata(void *data, unsigned int length,
+ unsigned int *returned, unsigned int flags) {
+#ifdef ISC_PLATFORM_CRYPTORANDOM
+#ifndef DONT_REQUIRE_DST_LIB_INIT
+INSIST(dst__memory_pool != NULL);
+#endif
+ REQUIRE(data != NULL);
+ REQUIRE(length > 0);

-#include <isc/util.h>
+#if OPENSSSL_VERSION_NUMBER < 0x10100000L || defined(LIBRESSL_VERSION_NUMBER)
+ if ((flags & ISC_ENTROPY_GOODONLY) == 0) {
+ if (RAND_pseudo_bytes((unsigned char *)data, (int)length) < 0)

```

```

+ return (dst__openssl_toreresult2("RAND_pseudo_bytes",
+     DST_R_OPENSSLFAILURE));
+ } else {
+ if (RAND_bytes((unsigned
char *)data, (int)length) != 1)
+ return (dst__openssl_toreresult2("RAND_bytes",
+     DST_R_OPENSSLFAILURE));
+ }
+ #else
+ UNUSED(flags);

```

```

-EMPTY_TRANSLATION_UNIT
+ if (RAND_bytes((unsigned char *)data, (int)length) != 1)
+ return (dst__openssl_toreresult2("RAND_bytes",
+     DST_R_OPENSSLFAILURE));
+ #endif
+ if (returned != NULL)
+ *returned = length;
+ return (ISC_R_SUCCESS);
+ #else
+ UNUSED(data);
+ UNUSED(length);
+ UNUSED(returned);
+ UNUSED(flags);
+
+ return (ISC_R_NOTIMPLEMENTED);
+ #endif
+ }

```

```

#endif /* OPENSSSL */

```

```

/*! \file */

```

```

diff --git a/lib/dns/pkcs11.c b/lib/dns/pkcs11.c

```

```

index 6b30309..20552fa 100644

```

```

--- a/lib/dns/pkcs11.c

```

```

+++ b/lib/dns/pkcs11.c

```

```

@@ -13,12 +13,15 @@

```

```

#include <config.h>

```

```

#include <isc/util.h>

```

```

+

```

```

#include <dns/log.h>

```

```

#include <dns/result.h>

```

```

#include <pk11/pk11.h>

```

```

#include <pk11/internal.h>

```

```

#include "dst_internal.h"

```



```

#include "dst_pkcs11.h"

isc_result_t
@@ -34,12 +37,32 @@ dst__pkcs11_toresult(const char *funcname, const char
*file, int line,
return (fallback);
}

+isc_result_t
+dst_random_getdata(void *data, unsigned int length,
+ unsigned int *returned, unsigned int flags) {
+#ifdef ISC_PLATFORM_CRYPTORANDOM
+ isc_result_t ret;

-#else /* PKCS11CRYPTO */
+#ifndef DONT_REQUIRE_DST_LIB_INIT
+ INSIST(dst__memory_pool != NULL);
+#endif
+ REQUIRE(data != NULL);
+ REQUIRE(length > 0);
+ UNUSED(flags);

-#include <isc/util.h>
+ ret = pk11_rand_bytes(data, (int) length);
+ if ((ret == ISC_R_SUCCESS) && (returned != NULL))
+ *returned = length;
+ return (ret);
+#else
+ UNUSED(data);
+ UNUSED(length);
+ UNUSED(returned);
+ UNUSED(flags);

-EMPTY_TRANSLATION_UNIT
+ return (ISC_R_NOTIMPLEMENTED);
+#endif
+}

#endif /* PKCS11CRYPTO */
/*! \file */
diff --git a/lib/dns/tests/Kyuafile b/lib/dns/tests/Kyuafile
index 937b548..f3c0e38 100644
--- a/lib/dns/tests/Kyuafile
+++ b/lib/dns/tests/Kyuafile
@@ -10,6 +10,7 @@ tap_test_program{name='dh_test'}
tap_test_program{name='dispatch_test'}
tap_test_program{name='dnstap_test'}

```

```

tap_test_program{name='dst_test'}
+tap_test_program{name='dstrandom_test'}
tap_test_program{name='geoip_test'}
tap_test_program{name='gost_test'}
tap_test_program{name='keytable_test'}
diff --git a/lib/dns/tests/Makefile.in b/lib/dns/tests/Makefile.in
index 4126372..30cab17 100644
--- a/lib/dns/tests/Makefile.in
+++ b/lib/dns/tests/Makefile.in
@@ -37,6 +37,7 @@ SRCS = acl_test.c \
    dnstap_test.c \
    dst_test.c \
    dnstest.c \
+ dstrandom_test.c \
    geoip_test.c \
    gost_test.c \
    keytable_test.c \
@@ -69,6 +70,7 @@ TARGETS = acl_test@EXEEXT@ \
    dh_test@EXEEXT@ \
    dispatch_test@EXEEXT@ \
    dnstap_test@EXEEXT@ \
+ dstrandom_test@EXEEXT@ \
    dst_test@EXEEXT@ \
    geoip_test@EXEEXT@ \
    gost_test@EXEEXT@ \
@@ -258,6 +260,11 @@ zt_test@EXEEXT@: zt_test.@O@ dnstest.@O@ ${ISCDEPLIBS} ${DNSDEPLIBS}
    ${LDFLAGS} -o $@ zt_test.@O@ dnstest.@O@ \
    ${DNSLIBS} ${ISCLIBS} ${LIBS}

+dstrandom_test@EXEEXT@: dstrandom_test.@O@ ${ISCDEPLIBS} ${DNSDEPLIBS}
+ ${LIBTOOL_MODE_LINK}
+ ${PURIFY} ${CC} ${CFLAGS} ${LDFLAGS} -o $@ \
+ dstrandom_test.@O@ ${DNSLIBS} \
+ ${ISCLIBS} ${ISCPK11LIBS} ${LIBS}
+
unit::
sh ${top_builddir}/unit/unittest.sh

diff --git a/lib/dns/tests/dstrandom_test.c b/lib/dns/tests/dstrandom_test.c
new file mode 100644
index 0000000..bd3d164
--- /dev/null
+++ b/lib/dns/tests/dstrandom_test.c
@@ -0,0 +1,115 @@
+/*
+ * Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+ *
+ * This Source Code Form is subject to the terms of the Mozilla Public

```

```

+ * License, v. 2.0. If a copy of the MPL was not distributed with this
+ * file, You can obtain one at http://mozilla.org/MPL/2.0/.
+ *
+ * See the COPYRIGHT file distributed with this work for additional
+ * information regarding copyright ownership.
+ */
+
+#include <config.h>
+
+#if HAVE_CMOCKA
+
+#include <stdarg.h>
+#include <stddef.h>
+#include <setjmp.h>
+
+#include <stdlib.h>
+#include <stdio.h>
+#include <string.h>
+#include <unistd.h>
+
+#define UNIT_TESTING
+#include
<cmocka.h>
+
+#include <isc/entropy.h>
+#include <isc/mem.h>
+#include <isc/print.h>
+#include <isc/platform.h>
+#include <isc/util.h>
+
+#include <dst/dst.h>
+
+isc_mem_t *mctx = NULL;
+isc_entropy_t *ectx = NULL;
+unsigned char buffer[128];
+
+/* isc_entropy_getdata() examples */
+static void
+isc_entropy_getdata_test(void **state) {
+  isc_result_t result;
+  unsigned int returned, status;
+  const char *randomfile = "testdata/dstrandom/random.data";
+  int ret;
+
+  +
+  + UNUSED(state);
+
+  +
+  + isc_mem_debugging |= ISC_MEM_DEBUGRECORD;
+  + result = isc_mem_create(0, 0, &mctx);

```

```

+ assert_int_equal(result, ISC_R_SUCCESS);
+ result = isc_entropy_create(mctx, &ectx);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ result = dst_lib_init(mctx, ectx, 0);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+#ifdef ISC_PLATFORM_CRYPTORANDOM
+ isc_entropy_usehook(ectx, true);
+
+ returned = 0;
+ result = isc_entropy_getdata(ectx, buffer, sizeof(buffer),
+     &returned, 0);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ assert_int_equal(returned,
+     sizeof(buffer));
+
+ status = isc_entropy_status(ectx);
+ assert_int_equal(status, 0);
+
+ isc_entropy_usehook(ectx, false);
+#endif
+
+ ret = chdir(TESTS);
+ assert_int_equal(ret, 0);
+
+ result = isc_entropy_createfilesouce(ectx, randomfile);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ returned = 0;
+ result = isc_entropy_getdata(ectx, buffer, sizeof(buffer),
+     &returned, 0);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ assert_int_equal(returned, sizeof(buffer));
+
+ status = isc_entropy_status(ectx);
+ assert_true(status > 0);
+
+ dst_lib_destroy();
+ isc_entropy_detach(&ectx);
+ assert_null(ectx);
+
+ isc_mem_destroy(&mctx);
+ assert_null(mctx);
+}
+
+int
+main(void) {
+ const struct CMUnitTest tests[] = {

```

```

+ cmocka_unit_test(isc_entropy_getdata_test),
+ };
+
+ return (cmocka_run_group_tests(tests, NULL, NULL));
+}
+
+ #else /* HAVE_CMOCKA */
+
+ #include <stdio.h>
+
+ int
+ main(void) {
+ printf("1.0 # Skipped: cmocka not available\n");
+ return
+ (0);
+}
+
+ #endif
diff --git a/lib/dns/win32/libdns.def.in b/lib/dns/win32/libdns.def.in
index 9c2ef79..f597049 100644
--- a/lib/dns/win32/libdns.def.in
+++ b/lib/dns/win32/libdns.def.in
@@ -1487,6 +1487,13 @@ dst_lib_destroy
dst_lib_init
dst_lib_init2
dst_lib_initmsgcat
+ @IF PKCS11
+ dst_random_getdata
+ @ELSE PKCS11
+ @IF OPENSSL
+ dst_random_getdata
+ @END OPENSSL
+ @END PKCS11
dst_region_computeid
dst_region_computerid
dst_result_register
diff --git a/lib/isc/entropy.c b/lib/isc/entropy.c
index 0c1f3ed..fdd17d7 100644
--- a/lib/isc/entropy.c
+++ b/lib/isc/entropy.c
@@ -104,11 +104,15 @@ struct isc_entropy {
uint32_t initialized;
uint32_t initcount;
isc_entropypool_t pool;
+ bool usehook;
unsigned int nsources;
isc_entropysource_t *nextsource;
ISC_LIST(isc_entropysource_t) sources;

```

```

};

+/*% Global Hook */
+static isc_entropy_getdata_t hook;
+
+/*% Sample Queue */
typedef struct {
    uint32_t last_time; /*%< last time recorded */
@@ -557,6 +561,11
    @@ isc_entropy_getdata(isc_entropy_t *ent, void *data, unsigned int length,

    LOCK(&ent->lock);

+ if (ent->usehook && (hook != NULL)) {
+ UNLOCK(&ent->lock);
+ return (hook(data, length, returned, flags));
+ }
+
    remain = length;
    buf = data;
    total = 0;
@@ -708,6 +717,7 @@ isc_entropy_create(isc_mem_t *mctx, isc_entropy_t **entp) {
    ent->refcnt = 1;
    ent->initialized = 0;
    ent->initcount = 0;
+ ent->usehook = false;
    ent->magic = ENTROPY_MAGIC;

    isc_entropypool_init(&ent->pool);
@@ -1286,3 +1296,17 @@ isc_entropy_usebestsource(isc_entropy_t *ectx, isc_entropysource_t **source,
    */
    return (final_result);
}
+
+void
+isc_entropy_usehook(isc_entropy_t *ectx, bool onoff) {
+ REQUIRE(VALID_ENTROPY(ectx));
+
+ LOCK(&ectx->lock);
+ ectx->usehook = onoff;
+ UNLOCK(&ectx->lock);
+}
+
+void
+isc_entropy_sethook(isc_entropy_getdata_t myhook) {
+ hook = myhook;
+}
diff --git a/lib/isc/include/isc/entropy.h b/lib/isc/include/isc/entropy.h

```

```

index b5bc956..f32c9dc 100644
--- a/lib/isc/include/isc/entropy.h
+++
b/lib/isc/include/isc/entropy.h
@@ -302,6 +302,18 @@ isc_entropy_usebestsource(isc_entropy_t *ectx, isc_entropysource_t **source,
 * isc_entropy_createcallbacksource().
 */

+void
+isc_entropy_usehook(isc_entropy_t *ectx, bool onoff);
+/*!<
+ * \brief Mark/unmark the given entropy structure as being hooked.
+ */
+
+void
+isc_entropy_sethook(isc_entropy_getdata_t myhook);
+/*!<
+ * \brief Set the getdata hook (e.g., for a crypto random generator).
+ */
+
ISC_LANG_ENDDECLS

#endif /* ISC_ENTROPY_H */
diff --git a/lib/isc/include/isc/platform.h.in b/lib/isc/include/isc/platform.h.in
index 2bf8758..f4c684e 100644
--- a/lib/isc/include/isc/platform.h.in
+++ b/lib/isc/include/isc/platform.h.in
@@ -359,6 +359,11 @@
 */
@ISC_PLATFORM_HAVESTRINGSH@

+/*
+ * Define if the random functions are provided by crypto.
+ */
+@ISC_PLATFORM_CRYPTORANDOM@
+
+/*
+ * Define if the hash functions must be provided by OpenSSL.
+ */
diff --git a/lib/isc/include/isc/types.h
b/lib/isc/include/isc/types.h
index 3bdd54f..d5acd39 100644
--- a/lib/isc/include/isc/types.h
+++ b/lib/isc/include/isc/types.h
@@ -95,6 +95,8 @@ typedef struct isc_time  isc_time_t; /*%< Time */
typedef struct isc_timer  isc_timer_t; /*%< Timer */
typedef struct isc_timermgr  isc_timermgr_t; /*%< Timer Manager */

```

```

+typedef isc_result_t (*isc_entropy_getdata_t)(void *, unsigned int,
+      unsigned int *, unsigned int);
typedef void (*isc_taskaction_t)(isc_task_t *, isc_event_t *);
typedef int (*isc_sockfdwatch_t)(isc_task_t *, isc_socket_t *, void *, int);

```

```
diff --git a/lib/isc/pk11.c b/lib/isc/pk11.c
```

```
index 227f807..4a63fdf 100644
```

```
--- a/lib/isc/pk11.c
```

```
+++ b/lib/isc/pk11.c
```

```
@@ -321,14 +321,16 @@ pk11_rand_seed_fromfile(const char *randomfile) {
```

```
ret = isc_stdio_open(randomfile, "r", &stream);
```

```
if (ret != ISC_R_SUCCESS)
```

```
    goto cleanup;
```

```
- ret = isc_stdio_read(seed, 1, SEEDSIZE, stream, &cc);
```

```
- if (ret != ISC_R_SUCCESS)
```

```
- goto cleanup;
```

```
+ while (ret == ISC_R_SUCCESS) {
```

```
+ ret
```

```
    = isc_stdio_read(seed, 1, SEEDSIZE, stream, &cc);
```

```
+ if ((ret != ISC_R_SUCCESS) && (ret != ISC_R_EOF))
```

```
+ goto cleanup;
```

```
+ (void) pkcs_C_SeedRandom(ctx.session, seed, (CK_ULONG) cc);
```

```
+ }
```

```
ret = isc_stdio_close(stream);
```

```
stream = NULL;
```

```
- if (ret != ISC_R_SUCCESS)
```

```
+ if (ret != ISC_R_SUCCESS)
```

```
    goto cleanup;
```

```
- (void) pkcs_C_SeedRandom(ctx.session, seed, (CK_ULONG) cc);
```

```
cleanup:
```

```
if (stream != NULL)
```

```
diff --git a/lib/isc/win32/include/isc/platform.h.in b/lib/isc/win32/include/isc/platform.h.in
```

```
index 1f785e0..f9051c3 100644
```

```
--- a/lib/isc/win32/include/isc/platform.h.in
```

```
+++ b/lib/isc/win32/include/isc/platform.h.in
```

```
@@ -73,6 +73,11 @@
```

```
#define ISC_PLATFORM_NORETURN_PRE __declspec(noreturn)
```

```
#define ISC_PLATFORM_NORETURN_POST
```

```
*/
```

```
+ * Define if the random functions are provided by crypto.
```

```
+ */
```

```
+@ISC_PLATFORM_CRYPTORANDOM@
```

```
+
```

```
/*
```

```
* Define if the hash functions must be provided by OpenSSL.
```

```
*/
```



```

diff --git a/win32utils/Configure b/win32utils/Configure
index 7ac30fb..55b6c23 100644
---
a/win32utils/Configure
+++ b/win32utils/Configure
@@ -382,6 +382,7 @@ my @substdefh = ("ALLOW_FILTER_AAAA",
my %configdefp;

my @substdefp = ("ISC_PLATFORM_BUSYWAITNOP",
+       "ISC_PLATFORM_CRYPTORANDOM",
       "ISC_PLATFORM_HAVEATOMICSTORE",
       "ISC_PLATFORM_HAVEATOMICSTOREQ",
       "ISC_PLATFORM_HAVECMPXCHG",
@@ -516,7 +517,8 @@ my @allcond = (@substcond, "NOTYET", "NOLONGER");

# enable-xxx/disable-xxx

-my @enablelist = ("developer",
+my @enablelist = ("crypto-rand",
+       "developer",
       "fixed-rrset",
       "intrinsic",
       "native-pkcs11",
@@ -578,6 +580,7 @@ my @help = (
"\nOptional Features:\n",
" enable-intrinsic  enable intrinsic/atomic functions [default=yes]\n",
" enable-native-pkcs11 use native PKCS#11 for all crypto [default=no]\n",
+" enable-crypto-rand  use crypto provider for random [default=yes]\n",
" enable-openssl-hash use OpenSSL
for hash functions [default=yes]\n",
" enable-filter-aaaa  enable filtering of AAAA records [default=yes]\n",
" enable-fixed-rrset  enable fixed rrset ordering [default=no]\n",
@@ -625,7 +628,9 @@ my $want_clean = "no";
my $want_unknown = "no";
my $unknown_value;
my $enable_intrinsic = "yes";
+my $cryptolib = "";
my $enable_native_pkcs11 = "no";
+my $enable_crypto_rand = "yes";
my $enable_openssl_hash = "auto";
my $enable_filter_aaaa = "yes";
my $enable_fixed_rrset = "no";
@@ -844,6 +849,10 @@ sub myenable {
    if ($val =~ /^yes$/i) {
        $enable_native_pkcs11 = "yes";
    }
+ } elsif ($key =~ /^crypto-rand$/i) {
+   if ($val =~ /^no$/i) {

```

```

+     $enable_crypto_rand = "no";
+   }
+   } elsif ($key =~ /^openssl-hash$/i) {
+     if ($val =~ /^yes$/i) {
+       $enable_openssl_hash = "yes";
@@ -1146,6 +1155,11 @@ if ($verbose) {
+   } else {
+     print "native-pkcs11: disabled\n";
+   }
+   if ($enable_crypto_rand
+   eq "yes") {
+     print "crypto-rand: enabled\n";
+   } else {
+     print "crypto-rand: disabled\n";
+   }
+   if ($enable_openssl_hash eq "yes") {
+     print "openssl-hash: enabled\n";
+   } else {
@@ -1498,6 +1512,7 @@ if ($enable_intrinsics eq "yes") {

# enable-native-pkcs11
if ($enable_native_pkcs11 eq "yes") {
+ $cryptolib = "pkcs11";
+   if ($use_openssl eq "auto") {
+     $use_openssl = "no";
+   }
@@ -1707,6 +1722,7 @@ if ($use_openssl eq "yes") {
+   $openssl_dll = File::Spec->catdir($openssl_path, "@dirlist[0]");
+ }

+ $cryptolib = "openssl";
+   $configcond{"OPENSSL"} = 1;
+   $configdef{"CRYPTO"} = "OPENSSL";
+   $configvar{"OPENSSL_PATH"} = "$openssl_path";
@@ -2278,6 +2294,15 @@ if ($use_aes eq "yes") {
+ }

+# enable-crypto-rand
+if ($enable_crypto_rand eq "yes") {
+   if (($use_openssl eq "no") && ($enable_native_pkcs11 eq "no")) {
+     die "No crypto provider for random functions\n";
+   }
+   $configdef{"ISC_PLATFORM_CRYPTORANDOM"}
+   = "\"$cryptolib\"";
+ }
+print "Cryptographic library for DNSSEC: $cryptolib";
+

```

```
# enable-openssl-hash
if ($enable_openssl_hash eq "yes") {
    if ($use_openssl eq "no") {
        @@ -3650,6 +3675,7 @@ exit 0;
    }
    # --enable-developer partially supported
    # --enable-newstats (9.9/9.9sub only)
    # --enable-native-pkcs11 supported
    +# --enable-crypto-rand supported
    # --enable-openssl-version-check included without a way to disable it
    # --enable-openssl-hash supported
    # --enable-threads included without a way to disable it
    --
    2.31.1
```

Found in path(s):

```
* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/bind-9.11-rt31459.patch
No license file was found, but licenses were detected in source scan.
```

```
.\" Permission to use, copy, modify, and distribute this software for any
.\" purpose with or without fee is hereby granted, provided that the above
.\" copyright notice and this permission notice appear in all copies.
```

Found in path(s):

```
* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/ldap2zone.1
No license file was found, but licenses were detected in source scan.
```

From 800ef75553881527e2406f22887e976bb1ba3bfe Mon Sep 17 00:00:00 2001

From: Mark Andrews <marka@isc.org>

Date: Tue, 18 Jan 2022 00:19:47 +1100

Subject: [PATCH] Add tests for forwarder cache poisoning scenarios

- Check that an NS in an authority section returned from a forwarder which is above the name in a configured "forward first" or "forward only" zone (i.e., net/NS in a response from a forwarder configured for local.net) is not cached.
- Test that a DNAME for a parent domain will not be cached when sent in a response from a forwarder configured to answer for a child.
- Check that glue is rejected if its name falls below that of zone configured locally.
- Check that an extra out-of-bailiwick data in the answer section is not cached (this was already working correctly, but was not explicitly tested before).

- v9_11 backport: Revert primary/secondary to master/slave, backport rndc helper, backport ns8 config.

(cherry picked from commit bf3ffff67e1de78e9387a93674d471bf4291604)

(cherry picked from commit 29f08170f05c2c96fb67f3b561b46aa0bae356f7)

```
bin/tests/system/forward/ans11/ans.py      | 136 ++++++
bin/tests/system/forward/clean.sh          | 2 +
bin/tests/system/forward/ns1/diditwork.net.db | 20 +++
bin/tests/system/forward/ns1/named.conf.in | 20 +++
bin/tests/system/forward/ns1/net.example.lll | 13 ++
bin/tests/system/forward/ns1/spoofed.net.db | 20 +++
bin/tests/system/forward/ns1/sub.local.net.db | 20 +++
bin/tests/system/forward/ns10/fakenet.zone | 15 ++
bin/tests/system/forward/ns10/fakenet2.zone | 13 ++
.../system/forward/ns10/fakesublocalnet.zone | 13 ++
.../system/forward/ns10/fakesublocaltld.zone | 13 ++
bin/tests/system/forward/ns10/named.conf.in | 51 ++++++
bin/tests/system/forward/ns10/net.example.lll | 13 ++
bin/tests/system/forward/ns10/spoofednet.zone | 14 ++
bin/tests/system/forward/ns4/named.conf.in
| 5 +
bin/tests/system/forward/ns4/sibling.tld.db | 20 +++
bin/tests/system/forward/ns8/named.conf.in | 33 ++++++
bin/tests/system/forward/ns8/root.db      | 11 ++
bin/tests/system/forward/ns8/sub.local.tld.db | 13 ++
bin/tests/system/forward/ns9/local.net.db | 14 ++
bin/tests/system/forward/ns9/local.tld.db | 13 ++
bin/tests/system/forward/ns9/named1.conf.in | 65 ++++++
bin/tests/system/forward/ns9/named2.conf.in | 68 ++++++
bin/tests/system/forward/ns9/named3.conf.in | 48 ++++++
bin/tests/system/forward/ns9/named4.conf.in | 45 ++++++
bin/tests/system/forward/ns9/root.db      | 11 ++
bin/tests/system/forward/prereq.sh        | 14 ++
bin/tests/system/forward/setup.sh         | 3 +
bin/tests/system/forward/tests.sh         | 126 ++++++
bin/tests/system/ifconfig.sh              | 8 +-
30 files changed, 856 insertions(+), 4 deletions(-)
create mode 100644 bin/tests/system/forward/ans11/ans.py
create mode 100644 bin/tests/system/forward/ns1/diditwork.net.db
create mode 100644 bin/tests/system/forward/ns1/net.example.lll
create mode 100644 bin/tests/system/forward/ns1/spoofed.net.db
create mode 100644 bin/tests/system/forward/ns1/sub.local.net.db
create mode 100644 bin/tests/system/forward/ns10/fakenet.zone
create mode 100644 bin/tests/system/forward/ns10/fakenet2.zone
create mode 100644 bin/tests/system/forward/ns10/fakesublocalnet.zone
create mode 100644 bin/tests/system/forward/ns10/fakesublocaltld.zone
create mode 100644 bin/tests/system/forward/ns10/named.conf.in
create mode 100644 bin/tests/system/forward/ns10/net.example.lll
create mode 100644 bin/tests/system/forward/ns10/spoofednet.zone
create mode 100644 bin/tests/system/forward/ns4/sibling.tld.db
create mode 100644 bin/tests/system/forward/ns8/named.conf.in
```

```

create mode 100644 bin/tests/system/forward/ns8/root.db
create mode 100644 bin/tests/system/forward/ns8/sub.local.tld.db
create mode 100644
  bin/tests/system/forward/ns9/local.net.db
create mode 100644 bin/tests/system/forward/ns9/local.tld.db
create mode 100644 bin/tests/system/forward/ns9/named1.conf.in
create mode 100644 bin/tests/system/forward/ns9/named2.conf.in
create mode 100644 bin/tests/system/forward/ns9/named3.conf.in
create mode 100644 bin/tests/system/forward/ns9/named4.conf.in
create mode 100644 bin/tests/system/forward/ns9/root.db

diff --git a/bin/tests/system/forward/ans11/ans.py b/bin/tests/system/forward/ans11/ans.py
new file mode 100644
index 0000000000..2956cf6eff
--- /dev/null
+++ b/bin/tests/system/forward/ans11/ans.py
@@ -0,0 +1,136 @@
+#####
+# Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+#
+# This Source Code Form is subject to the terms of the Mozilla Public
+# License, v. 2.0. If a copy of the MPL was not distributed with this
+# file, you can obtain one at https://mozilla.org/MPL/2.0/.
+#
+# See the COPYRIGHT
  file distributed with this work for additional
  information regarding copyright ownership.
+#####
+
+from __future__ import print_function
+import os
+import sys
+import signal
+import socket
+import select
+from datetime import datetime, timedelta
+import time
+import functools
+
+
+import dns, dns.message, dns.query, dns.flags
+from dns.rdatatype import *
+from dns.rdataclass import *
+from dns.rcode import *
+from dns.name import *
+
+# Log query to file
+def logquery(type, qname):
+    with open("qlog", "a") as f:

```

```

+   f.write("%s %s\n", type, qname)
+
+#####
+# Respond to a DNS query.
+#####
+def create_response(msg):
+   m = dns.message.from_wire(msg)
+   qname = m.question[0].name.to_text()
+   rrtype = m.question[0].rrtype
+   typename = dns.rdatatype.to_text(rrtype)
+
+
+   with open("query.log", "a") as f:
+       f.write("%s %s\n" % (typename, qname))
+       print("%s %s" % (typename, qname), end=" ")
+
+
+   r = dns.message.make_response(m)
+   r.set_rcode(NOERROR)
+   if rrtype == A:
+       tld=qname.split('.')[-2] + '.'
+       ns="local." + tld
+       r.answer.append(dns.rrset.from_text(qname, 300, IN, A, "10.53.0.11"))
+       r.answer.append(dns.rrset.from_text(tld, 300, IN, NS, "local." + tld))
+       r.additional.append(dns.rrset.from_text(ns, 300, IN, A, "10.53.0.11"))
+   elif rrtype == NS:
+       r.answer.append(dns.rrset.from_text(qname, 300, IN, NS, "."))
+   elif rrtype == SOA:
+       r.answer.append(dns.rrset.from_text(qname, 300, IN, SOA, ". . 0 0 0 0 0"))
+   else:
+       r.authority.append(dns.rrset.from_text(qname, 300, IN, SOA, ". . 0 0 0 0 0"))
+   r.flags |= dns.flags.AA
+   return r
+
+def sigterm(signum, frame):
+   print ("Shutting down now...")
+   os.remove('ans.pid')
+   running
+   = False
+   sys.exit(0)
+
+#####
+# Main
+#
+# Set up responder and control channel, open the pid file, and start
+# the main loop, listening for queries on the query channel or commands
+# on the control channel and acting on them.
+#####
+ip4 = "10.53.0.11"

```

```

+ip6 = "fd92:7065:b8e:ffff::11"
+
+try: port=int(os.environ['PORT'])
+except: port=5300
+
+query4_socket = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
+query4_socket.bind((ip4, port))
+havev6 = True
+try:
+  query6_socket = socket.socket(socket.AF_INET6, socket.SOCK_DGRAM)
+  try:
+    query6_socket.bind((ip6, port))
+  except:
+    query6_socket.close()
+    havev6 = False
+except:
+  havev6 = False
+signal.signal(signal.SIGTERM, sigterm)
+
+f = open('ans.pid', 'w')
+pid = os.getpid()
+print (pid, file=f)
+f.close()
+
+running = True
+
+print ("Listening on %s port
+d" % (ip4, port))
+if havev6:
+  print ("Listening on %s port %d" % (ip6, port))
+print ("Ctrl-c to quit")
+
+if havev6:
+  input = [query4_socket, query6_socket]
+else:
+  input = [query4_socket]
+
+while running:
+  try:
+    inputready, outputready, exceptready = select.select(input, [], [])
+  except select.error as e:
+    break
+  except socket.error as e:
+    break
+  except KeyboardInterrupt:
+    break
+
+  for s in inputready:

```

```

+   if s == query4_socket or s == query6_socket:
+       print ("Query received on %s" %
+             (ip4 if s == query4_socket else ip6), end=" ")
+       # Handle incoming queries
+       msg = s.recvfrom(65535)
+       rsp = create_response(msg[0])
+       if rsp:
+           print(dns.rcode.to_text(rsp.rcode()))
+           s.sendto(rsp.to_wire(), msg[1])
+       else:
+           print("NO RESPONSE")
+   if not running:
+       break
diff --git a/bin/tests/system/forward/clean.sh
b/bin/tests/system/forward/clean.sh
index 26e4e76db6..26a550db49 100644
--- a/bin/tests/system/forward/clean.sh
+++ b/bin/tests/system/forward/clean.sh
@@ -10,8 +10,10 @@
#
# Clean up after forward tests.
#
+rm -f ./ans11/query.log
rm -f ./dig.out.*
rm -f ./*/named.conf
rm -f ./*/named.memstats
rm -f ./*/named.run ./*/named.run.prev
+rm -f ./*/named_dump.db
rm -f ./ns*/named.lock
diff --git a/bin/tests/system/forward/ns1/diditwork.net.db b/bin/tests/system/forward/ns1/diditwork.net.db
new file mode 100644
index 0000000000..be9a7f72bc
--- /dev/null
+++ b/bin/tests/system/forward/ns1/diditwork.net.db
@@ -0,0 +1,20 @@
+; Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+;
+; This Source Code Form is subject to the terms of the Mozilla Public
+; License, v. 2.0. If a copy of the MPL was not distributed with this
+; file, you can obtain one at https://mozilla.org/MPL/2.0/.
+;
+; See the COPYRIGHT file distributed with this work for additional
+; information
+; regarding copyright ownership.
+
+$TTL 300 ; 5 minutes
+@ IN SOA ns root (
+ 2000082401 ; serial

```



```

+ 1800 ; refresh (30 minutes)
+ 1800 ; retry (30 minutes)
+ 1814400 ; expire (3 weeks)
+ 3600 ; minimum (1 hour)
+ )
+ NS ns
+ TXT "recursed"
+ns A 10.53.0.1
diff --git a/bin/tests/system/forward/ns1/named.conf.in b/bin/tests/system/forward/ns1/named.conf.in
index 9904f37ef5..1c31d84608 100644
--- a/bin/tests/system/forward/ns1/named.conf.in
+++ b/bin/tests/system/forward/ns1/named.conf.in
@@ -54,3 +54,23 @@ zone "example5." {
zone "example6" {
type forward;
};
+
+zone "diditwork.net" {
+ type master;
+ file "diditwork.net.db";
+};
+
+zone "spoofed.net" {
+ type master;
+ file "spoofed.net.db";
+};
+
+zone "sub.local.net" {
+ type master;
+ file "sub.local.net.db";
+};
+
+zone "net.example.lll" {
+ type master;
+ file "net.example.lll";
+};
diff --git a/bin/tests/system/forward/ns1/net.example.lll b/bin/tests/system/forward/ns1/net.example.lll
new
file mode 100644
index 0000000000..d179853fa5
--- /dev/null
+++ b/bin/tests/system/forward/ns1/net.example.lll
@@ -0,0 +1,13 @@
+; Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+;
+; This Source Code Form is subject to the terms of the Mozilla Public
+; License, v. 2.0. If a copy of the MPL was not distributed with this
+; file, you can obtain one at https://mozilla.org/MPL/2.0/.

```

```

+;
+; See the COPYRIGHT file distributed with this work for additional
+; information regarding copyright ownership.
+
+$TTL 86400
+net.example.lll. SOA . . 0 0 0 0
+net.example.lll. NS attackSecureDomain.net.
+didItWork.net.example.lll. TXT "if you can see this record the attack worked"
diff --git a/bin/tests/system/forward/ns1/spoofed.net.db b/bin/tests/system/forward/ns1/spoofed.net.db
new file mode 100644
index 0000000000..d498d5fa0d
--- /dev/null
+++ b/bin/tests/system/forward/ns1/spoofed.net.db
@@ -0,0 +1,20 @@
+; Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+;
+;
+; This Source Code Form is subject to the terms of the Mozilla Public
+; License, v. 2.0. If a copy of the MPL was not distributed with this
+; file, you can obtain one at https://mozilla.org/MPL/2.0/.
+;
+; See the COPYRIGHT file distributed with this work for additional
+; information regarding copyright ownership.
+
+$TTL 300 ; 5 minutes
+@ IN SOA ns root (
+ 2000082401 ; serial
+ 1800 ; refresh (30 minutes)
+ 1800 ; retry (30 minutes)
+ 1814400 ; expire (3 weeks)
+ 3600 ; minimum (1 hour)
+ )
+ NS ns
+ns A 10.53.0.1
+sub TXT "recursed"
diff --git a/bin/tests/system/forward/ns1/sub.local.net.db b/bin/tests/system/forward/ns1/sub.local.net.db
new file mode 100644
index 0000000000..be9a7f72bc
--- /dev/null
+++ b/bin/tests/system/forward/ns1/sub.local.net.db
@@ -0,0 +1,20 @@
+; Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+;
+;
+; This Source Code Form is subject to the terms of the Mozilla Public
+; License, v. 2.0. If a copy of
+; the MPL was not distributed with this
+; file, you can obtain one at https://mozilla.org/MPL/2.0/.
+;

```

```

+; See the COPYRIGHT file distributed with this work for additional
+; information regarding copyright ownership.
+
+$TTL 300 ; 5 minutes
+@ IN SOA ns root (
+ 2000082401 ; serial
+ 1800 ; refresh (30 minutes)
+ 1800 ; retry (30 minutes)
+ 1814400 ; expire (3 weeks)
+ 3600 ; minimum (1 hour)
+ )
+ NS ns
+ TXT "recursed"
+ns A 10.53.0.1
diff --git a/bin/tests/system/forward/ns10/fakenet.zone b/bin/tests/system/forward/ns10/fakenet.zone
new file mode 100644
index 0000000000..14e5c777cb
--- /dev/null
+++ b/bin/tests/system/forward/ns10/fakenet.zone
@@ -0,0 +1,15 @@
+; Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+;
+; This Source Code Form is subject to the terms of the Mozilla Public
+; License, v. 2.0. If a copy of the MPL was not distributed with this
+; file, you can obtain one at https://mozilla.org/MPL/2.0/.
+;
+; See the COPYRIGHT
file distributed with this work for additional
+; information regarding copyright ownership.
+
+$TTL 86400
+net. SOA . . 0 0 0 0 0
+net. NS attackSecureDomain.net.
+attackSecureDomain.net. A 10.53.0.10
+didItWork.net. TXT "if you can see this record the attack worked"
+ns.spoofed.net. A 10.53.0.10
diff --git a/bin/tests/system/forward/ns10/fakenet2.zone b/bin/tests/system/forward/ns10/fakenet2.zone
new file mode 100644
index 0000000000..7ca28a934e
--- /dev/null
+++ b/bin/tests/system/forward/ns10/fakenet2.zone
@@ -0,0 +1,13 @@
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+;
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+;

```

```
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+
+$TTL 86400
+net2. SOA . . 0 0 0 0 0
+net2. NS attackSecureDomain.net.
+net2. DNAME net.example.lll.
diff
--git a/bin/tests/system/forward/ns10/fakesublocalnet.zone b/bin/tests/system/forward/ns10/fakesublocalnet.zone
new file mode 100644
index 0000000000..6caa071891
--- /dev/null
+++ b/bin/tests/system/forward/ns10/fakesublocalnet.zone
@@ -0,0 +1,13 @@
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+
+$TTL 86400
+sub.local.net. SOA . . 0 0 0 0 0
+sub.local.net. NS ns.spoofed.net.
+sub.local.net. TXT "if you see this attacker overrode local delegation"
diff --git a/bin/tests/system/forward/ns10/fakesublocaltld.zone b/bin/tests/system/forward/ns10/fakesublocaltld.zone
new file mode 100644
index 0000000000..6a431de47f
---
 /dev/null
+++ b/bin/tests/system/forward/ns10/fakesublocaltld.zone
@@ -0,0 +1,13 @@
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+;
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+
+sub.local.tld. 3600 IN SOA . . 0 0 0 0 0
+sub.local.tld. 3600 IN NS ns.sub.local.tld.
+sub.local.tld. 3600 IN TXT bad
+ns.sub.local.tld. 3600 IN A 10.53.0.8
diff --git a/bin/tests/system/forward/ns10/named.conf.in b/bin/tests/system/forward/ns10/named.conf.in
```

```
new file mode 100644
index 0000000000..025c108418
--- /dev/null
+++ b/bin/tests/system/forward/ns10/named.conf.in
@@ -0,0 +1,51 @@
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+ */
+
+options {
+ query-source address 10.53.0.10;
+ notify-source 10.53.0.10;
+ transfer-source 10.53.0.10;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.10; };
+ listen-on-v6 { none; };
+ minimal-responses no;
+};
+
+zone "net." {
+ type master;
+ file "fakenet.zone";
+};
+
+zone "spoofed.net." {
+ type master;
+ file "spoofednet.zone";
+};
+
+zone "sub.local.net." {
+ type master;
+ file "fakesublocalnet.zone";
+};
+
+zone "net2" {
+ type master;
+ file "fakenet2.zone";
+};
+
```

```

+zone "net.example.lll" {
+ type master;
+ file "net.example.lll";
+};
+
+zone "sub.local.tld." {
+ type master;
+ file "fakesublocaltld.zone";
+};
diff --git a/bin/tests/system/forward/ns10/net.example.lll b/bin/tests/system/forward/ns10/net.example.lll
new
file mode 100644
index 0000000000..d179853fa5
--- /dev/null
+++ b/bin/tests/system/forward/ns10/net.example.lll
@@ -0,0 +1,13 @@
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+
+
+$TTL 86400
+net.example.lll. SOA . . 0 0 0 0 0
+net.example.lll. NS attackSecureDomain.net.
+didItWork.net.example.lll. TXT "if you can see this record the attack worked"
diff --git a/bin/tests/system/forward/ns10/spoofednet.zone b/bin/tests/system/forward/ns10/spoofednet.zone
new file mode 100644
index 0000000000..13921a08cd
--- /dev/null
+++ b/bin/tests/system/forward/ns10/spoofednet.zone
@@ -0,0 +1,14 @@
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+
+
+$TTL 86400
+spoofed.net. SOA . . 0 0 0 0 0
+spoofed.net. NS ns.spoofed.net.

```

```

+ns.spoofer.net. A 10.53.0.10
+spoofer.net. TXT "this record is clearly spoofed"
diff --git a/bin/tests/system/forward/ns4/named.conf.in b/bin/tests/system/forward/ns4/named.conf.in
index d42a9eb797..6db65e71bc 100644
--- a/bin/tests/system/forward/ns4/named.conf.in
+++ b/bin/tests/system/forward/ns4/named.conf.in
@@ -60,3 +60,8 @@ zone "malicious." {
    type master;
    file "malicious.db";
};
+
+zone "sibling.tld" {
+ type master;
+ file "sibling.tld.db";
+};
diff --git a/bin/tests/system/forward/ns4/sibling.tld.db b/bin/tests/system/forward/ns4/sibling.tld.db
new file mode 100644
index
0000000000..58037d093b
--- /dev/null
+++ b/bin/tests/system/forward/ns4/sibling.tld.db
@@ -0,0 +1,20 @@
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+
+$TTL 86400
+@ IN SOA malicious. admin.malicious. (
+      1      ; Serial
+      604800 ; Refresh
+      86400  ; Retry
+      2419200 ; Expire
+      86400 ) ; Negative Cache TTL
+
+@ IN NS ns
+
+ns IN A 10.53.0.4
diff --git a/bin/tests/system/forward/ns8/named.conf.in b/bin/tests/system/forward/ns8/named.conf.in
new
file mode 100644
index 0000000000..9260f69ded
--- /dev/null
+++ b/bin/tests/system/forward/ns8/named.conf.in

```

```

@@ -0,0 +1,33 @@
+/*
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+ */
+
+options {
+ query-source address 10.53.0.8;
+ notify-source 10.53.0.8;
+ transfer-source 10.53.0.8;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.8; };
+ listen-on-v6 { none; };
+ forwarders { 10.53.0.2; }; // returns referrals
+ forward first;
+ dnssec-validation yes;
+};
+
+zone "." {
+ type hint;
+ file "root.db";
+};
+
+zone "sub.local.tld" {
+ type master;
+ file "sub.local.tld.db";
+};
diff --git a/bin/tests/system/forward/ns8/root.db b/bin/tests/system/forward/ns8/root.db
new
file mode 100644
index 0000000000..4f30322270
--- /dev/null
+++ b/bin/tests/system/forward/ns8/root.db
@@ -0,0 +1,11 @@
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```



```

+; information regarding copyright ownership.
+
+. NS a.root-servers.nil.
+a.root-servers.nil. A 10.53.0.1
diff --git a/bin/tests/system/forward/ns8/sub.local.tld.db b/bin/tests/system/forward/ns8/sub.local.tld.db
new file mode 100644
index 0000000000..eb20683ae9
--- /dev/null
+++ b/bin/tests/system/forward/ns8/sub.local.tld.db
@@ -0,0 +1,13 @@
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+
+sub.local.tld. 3600 IN SOA . . 0 0 0 0
+sub.local.tld. 3600 IN NS ns.sub.local.tld.
+sub.local.tld. 3600 IN TXT good
+ns.sub.local.tld. 3600 IN A 10.53.0.8
diff --git a/bin/tests/system/forward/ns9/local.net.db b/bin/tests/system/forward/ns9/local.net.db
new file mode 100644
index 0000000000..2c971e1e93
--- /dev/null
+++ b/bin/tests/system/forward/ns9/local.net.db
@@ -0,0 +1,14 @@
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+;
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+
+local.net. 3600 IN SOA .
+ . 0 0 0 0
+local.net. 3600 IN NS localhost.
+ns.local.net. 3600 IN A 10.53.0.9
+txt.local.net. 3600 IN TXT "something in the local auth zone"
+sub.local.net. 3600 IN NS ns.spoofed.net. ; attacker will try to override this
diff --git a/bin/tests/system/forward/ns9/local.tld.db b/bin/tests/system/forward/ns9/local.tld.db
new file mode 100644
index 0000000000..59403915fb

```

```

--- /dev/null
+++ b/bin/tests/system/forward/ns9/local.tld.db
@@ -0,0 +1,13 @@
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+;
+; See the COPYRIGHT file distributed with this work for additional
+; information regarding copyright ownership.
+
+local.tld. 3600 IN SOA . . 0 0 0 0 0
+local.tld. 3600 IN NS localhost.
+sub.local.tld. 3600 IN NS ns.sub.local.tld.
+ns.sub.local.tld. 3600 IN A 10.53.0.8
diff
--git a/bin/tests/system/forward/ns9/named1.conf.in b/bin/tests/system/forward/ns9/named1.conf.in
new file mode 100644
index 0000000000..943e037d09
--- /dev/null
+++ b/bin/tests/system/forward/ns9/named1.conf.in
@@ -0,0 +1,65 @@
+/*
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+ *
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+ */
+
+options {
+ query-source address 10.53.0.9;
+ notify-source 10.53.0.9;
+ transfer-source 10.53.0.9;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.9; };
+ listen-on-v6 { none; };
+ dnssec-validation no;
+ edns-udp-size 1232;
+};
+
+key rndc_key {
+ secret "1234abcd8765";

```

```

+ algorithm hmac-sha256;
+};
+
+controls {
+ inet 10.53.0.9
+ port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+server 10.53.0.10 {
+ edns no;
+};
+
+server 10.53.0.11 {
+ edns no;
+};
+
+zone "." {
+ type hint;
+ file "root.db";
+};
+
+zone "attacksecuredomain.net." {
+ type forward;
+ forwarders { 10.53.0.10; };
+};
+
+zone "attacksecuredomain.net2." {
+ type forward;
+ forwarders { 10.53.0.10; };
+};
+
+zone "attacksecuredomain.net3." {
+ type forward;
+ forwarders { 10.53.0.11; };
+};
+
+zone "local.net." {
+ type master;
+ file "local.net.db";
+ forwarders {};
+};
diff --git a/bin/tests/system/forward/ns9/named2.conf.in b/bin/tests/system/forward/ns9/named2.conf.in
new file mode 100644
index 0000000000..5a17d1998a
--- /dev/null
+++ b/bin/tests/system/forward/ns9/named2.conf.in
@@ -0,0 +1,68 @@
+/*

```

```
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+ */
+
+options {
+ query-source address 10.53.0.9;
+ notify-source 10.53.0.9;
+ transfer-source 10.53.0.9;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.9; };
+ listen-on-v6 { none; };
+ dnssec-validation no;
+ edns-udp-size 1232;
+};
+
+key rndc_key {
+ secret "1234abcd8765";
+ algorithm hmac-sha256;
+};
+
+controls {
+ inet 10.53.0.9 port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+server 10.53.0.10 {
+ edns no;
+};
+
+server 10.53.0.11 {
+ edns no;
+};
+
+zone "." {
+ type hint;
+ file "root.db";
+};
+
+zone "attacksecuredomain.net." {
+ type forward;
+ forward only;
```

```

+ forwarders { 10.53.0.10; };
+};
+
+zone "attacksecuredomain.net2." {
+ type forward;
+ forward only;
+ forwarders { 10.53.0.10; };
+};
+
+zone "attacksecuredomain.net3." {
+ type forward;
+ forward only;
+ forwarders { 10.53.0.11; };
+};
+
+zone
"local.net." {
+ type master;
+ file "local.net.db";
+ forwarders {};
+};
diff --git a/bin/tests/system/forward/ns9/named3.conf.in b/bin/tests/system/forward/ns9/named3.conf.in
new file mode 100644
index 0000000000..1e70d1ae51
--- /dev/null
+++ b/bin/tests/system/forward/ns9/named3.conf.in
@@ -0,0 +1,48 @@
+/*
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+ */
+
+options {
+ query-source address 10.53.0.9;
+ notify-source 10.53.0.9;
+ transfer-source 10.53.0.9;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.9; };
+ listen-on-v6 { none; };
+ dnssec-validation no;
+ edns-udp-size 1232;

```

```

+ forward only;
+ forwarders { 10.53.0.10;
};
+};
+
+key rndc_key {
+ secret "1234abcd8765";
+ algorithm hmac-sha256;
+};
+
+controls {
+ inet 10.53.0.9 port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+server 10.53.0.10 {
+ edns no;
+};
+
+zone "." {
+ type hint;
+ file "root.db";
+};
+
+zone "local.net." {
+ type master;
+ file "local.net.db";
+ forwarders {};
+};
diff --git a/bin/tests/system/forward/ns9/named4.conf.in b/bin/tests/system/forward/ns9/named4.conf.in
new file mode 100644
index 0000000000..6f7b1075b5
--- /dev/null
+++ b/bin/tests/system/forward/ns9/named4.conf.in
@@ -0,0 +1,45 @@
+/*
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+ */
+
+options {
+ query-source

```

```
address 10.53.0.9;
+ notify-source 10.53.0.9;
+ transfer-source 10.53.0.9;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.9; };
+ listen-on-v6 { none; };
+ dnssec-validation no;
+ edns-udp-size 1232;
+};
+
+key rndc_key {
+ secret "1234abcd8765";
+ algorithm hmac-sha256;
+};
+
+controls {
+ inet 10.53.0.9 port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+server 10.53.0.10 {
+ edns no;
+};
+
+zone "." {
+ type hint;
+ file "root.db";
+};
+
+zone "local.tld." {
+ type master;
+ file "local.tld.db";
+};
diff --git a/bin/tests/system/forward/ns9/root.db b/bin/tests/system/forward/ns9/root.db
new file mode 100644
index 0000000000..4f30322270
--- /dev/null
+++ b/bin/tests/system/forward/ns9/root.db
@@ -0,0 +1,11 @@
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+;
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```

```

+
+. NS a.root-servers.nil.
+a.root-servers.nil. A 10.53.0.1
diff --git a/bin/tests/system/forward/prereq.sh b/bin/tests/system/forward/prereq.sh
index d2ca8fc2bf..53fb5817df 100644
--- a/bin/tests/system/forward/prereq.sh
+++ b/bin/tests/system/forward/prereq.sh
@@ -12,6 +12,20 @@
SYSTEMTESTTOP=..
.$SYSTEMTESTTOP/conf.sh

+if test -n "$PYTHON"
+then
+  if $PYTHON -c "import dns" 2> /dev/null
+  then
+    :
+  else
+    echo_i "This test requires the dnspython module." >&2
+    exit 1
+  fi
+else
+  echo_i "This test requires Python and the dnspython module." >&2
+  exit 1
+fi
+
+if $PERL -e 'use Net::DNS;' 2>/dev/null
+then
+  :
diff --git a/bin/tests/system/forward/setup.sh b/bin/tests/system/forward/setup.sh
index 87452b9a88..18e81d277d 100644
--- a/bin/tests/system/forward/setup.sh
+++ b/bin/tests/system/forward/setup.sh
@@
-18,3 +18,6 @@ copy_setports ns3/named.conf.in ns3/named.conf
copy_setports ns4/named.conf.in ns4/named.conf
copy_setports ns5/named.conf.in ns5/named.conf
copy_setports ns7/named.conf.in ns7/named.conf
+copy_setports ns8/named.conf.in ns8/named.conf
+copy_setports ns9/named1.conf.in ns9/named.conf
+copy_setports ns10/named.conf.in ns10/named.conf
diff --git a/bin/tests/system/forward/tests.sh b/bin/tests/system/forward/tests.sh
index e3549c5bc7..ce9b309a27 100644
--- a/bin/tests/system/forward/tests.sh
+++ b/bin/tests/system/forward/tests.sh
@@ -19,6 +19,10 @@ sendcmd() (
"$PERL" ../send.pl 10.53.0.6 "$EXTRAPORT1"
)

```



```

+rndccmd() {
+ "$RNDC" -c ../common/rndc.conf -p "$CONTROLPORT" -s "$@"
+}
+
root=10.53.0.1
hidden=10.53.0.2
f1=10.53.0.3
@@ -223,5 +227,127 @@ if [ $ret != 0 ]; then echo_i "failed"; fi
status=$((status+ret))

+#
+# Check various spoofed response scenarios. The same tests will be
+# run twice, with "forward first" and "forward only" configurations.
+#
+run_spoofests
+() {
+ n=$((n+1))
+ echo_i "checking spoofed response scenario 1 - out of bailiwick NS ($n)"
+ ret=0
+ # prime
+ dig_with_opts @10.53.0.9 attackSecureDomain.net > dig.out.$n.prime || ret=1
+ # check 'net' is not poisoned.
+ dig_with_opts @10.53.0.9 diditwork.net. TXT > dig.out.$n.net || ret=1
+ grep '^diditwork\.net\.*TXT.*"recursed"' dig.out.$n.net > /dev/null || ret=1
+ # check 'sub.local.net' is not poisoned.
+ dig_with_opts @10.53.0.9 sub.local.net TXT > dig.out.$n.sub || ret=1
+ grep '^sub\.local\.net\.*TXT.*"recursed"' dig.out.$n.sub > /dev/null || ret=1
+ if [ $ret != 0 ]; then echo_i "failed"; fi
+ status=$((status+ret))
+
+ n=$((n+1))
+ echo_i "checking spoofed response scenario 2 - inject DNAME/net2. ($n)"
+ ret=0
+ # prime
+ dig_with_opts @10.53.0.9 attackSecureDomain.net2 > dig.out.$n.prime || ret=1
+ # check that net2/DNAME is not cached
+ dig_with_opts @10.53.0.9 net2. DNAME > dig.out.$n.net2 || ret=1
+
+ grep "ANSWER: 0," dig.out.$n.net2 > /dev/null || ret=1
+ grep "status: NXDOMAIN" dig.out.$n.net2 > /dev/null || ret=1
+ if [ $ret != 0 ]; then echo_i "failed"; fi
+ status=$((status+ret))
+
+ n=$((n+1))
+ echo_i "checking spoofed response scenario 3 - extra answer ($n)"
+ ret=0
+ # prime

```

```

+ dig_with_opts @10.53.0.9 attackSecureDomain.net3 > dig.out.$n.prime || ret=1
+ # check extra net3 records are not cached
+ rndccmd 10.53.0.9 dumpdb -cache 2>&1 | sed 's/^/ns9 /' | cat_i
+ for try in 1 2 3 4 5; do
+   lines=$(grep "net3" ns9/named_dump.db | wc -l)
+   if [ ${lines} -eq 0 ]; then
+     sleep 1
+     continue
+   fi
+   [ ${lines} -eq 1 ] || ret=1
+   grep -q '^attackSecureDomain.net3' ns9/named_dump.db || ret=1
+   grep -q '^local.net3' ns9/named_dump.db && ret=1
+ done
+ if [ $ret != 0 ]; then echo_i "failed"; fi
+ status=$((status+ret))
+}
+
+echo_i "checking spoofed response scenarios
with forward first zones"
+run_spoofests
+
+copy_setports ns9/named2.conf.in ns9/named.conf
+rndccmd 10.53.0.9 reconfig 2>&1 | sed 's/^/ns3 /' | cat_i
+rndccmd 10.53.0.9 flush 2>&1 | sed 's/^/ns3 /' | cat_i
+sleep 1
+
+echo_i "rechecking spoofed response scenarios with forward only zones"
+run_spoofests
+
+##
+## This scenario expects the spoofed response to succeed. The tests are
+## similar to the ones above, but not identical.
+##
+echo_i "rechecking spoofed response scenarios with 'forward only' set globally"
+copy_setports ns9/named3.conf.in ns9/named.conf
+rndccmd 10.53.0.9 reconfig 2>&1 | sed 's/^/ns3 /' | cat_i
+rndccmd 10.53.0.9 flush 2>&1 | sed 's/^/ns3 /' | cat_i
+sleep 1
+
+n=$((n+1))
+echo_i "checking spoofed response scenario 1 - out of bailiwick NS ($n)"
+ret=0
+## prime
+dig_with_opts @10.53.0.9 attackSecureDomain.net > dig.out.$n.prime || ret=1
+## check 'net' is poisoned.
+dig_with_opts @10.53.0.9 diditwork.net. TXT > dig.out.$n.net || ret=1
+grep '^didItWork\.net\..*TXT.*'if

```

```

you can see this record the attack worked" dig.out.$n.net > /dev/null || ret=1
+# check 'sub.local.net' is poisoned.
+dig_with_opts @10.53.0.9 sub.local.net TXT > dig.out.$n.sub || ret=1
+grep '^sub\.local\.net\.*TXT.*'if you see this attacker overrode local delegation" dig.out.$n.sub > /dev/null ||
ret=1
+if [ $ret != 0 ]; then echo_i "failed"; fi
+status=$((status+ret))
+
+n=$((n+1))
+echo_i "checking spoofed response scenario 2 - inject DNAME/net2. ($n)"
+ret=0
+# prime
+dig_with_opts @10.53.0.9 attackSecureDomain.net2 > dig.out.$n.prime || ret=1
+# check that net2/DNAME is cached
+dig_with_opts @10.53.0.9 net2. DNAME > dig.out.$n.net2 || ret=1
+grep "ANSWER: 1," dig.out.$n.net2 > /dev/null || ret=1
+grep "net2\.*IN.DNAME.net\.example\.lll\." dig.out.$n.net2 > /dev/null || ret=1
+if [ $ret != 0 ]; then echo_i "failed"; fi
+status=$((status+ret))
+
+#
+# This test doesn't use any forwarder clauses but is here because it
+# is similar to forwarders, as the set of servers
# that can populate
+# the namespace is defined by the zone content.
+#
+echo_i "rechecking spoofed response scenarios glue below local zone"
+copy_setports ns9/named4.conf.in ns9/named.conf
+rndccmd 10.53.0.9 reconfig 2>&1 | sed 's/^ns3 /' | cat_i
+rndccmd 10.53.0.9 flush 2>&1 | sed 's/^ns3 /' | cat_i
+sleep 1
+
+n=$((n+1))
+echo_i "checking sibling glue below zone ($n)"
+ret=0
+# prime
+dig_with_opts @10.53.0.9 sibling.tld > dig.out.$n.prime || ret=1
+# check for glue A record for sub.local.tld is not used
+dig_with_opts @10.53.0.9 sub.local.tld TXT > dig.out.$n.sub || ret=1
+grep "ANSWER: 1," dig.out.$n.sub > /dev/null || ret=1
+grep 'sub\.local\.tld\.*IN.TXT.*good'$ dig.out.$n.sub > /dev/null || ret=1
+if [ $ret != 0 ]; then echo_i "failed"; fi
+status=$((status+ret))
+
echo_i "exit status: $status"
[ $status -eq 0 ] || exit 1
diff --git a/bin/tests/system/ifconfig.sh b/bin/tests/system/ifconfig.sh
index d0eb9fa61d..8b9212c3e0 100755

```

```

--- a/bin/tests/system/ifconfig.sh
+++ b/bin/tests/system/ifconfig.sh
@@
-12,10 +12,10 @@
#
# Set up interface aliases for bind9 system tests.
#
-# IPv4: 10.53.0.{1..10} RFC 1918
+# IPv4: 10.53.0.{1..11} RFC 1918
# 10.53.1.{1..2}
# 10.53.2.{1..2}
-# IPv6: fd92:7065:b8e:ffff::{1..10} ULA
+# IPv6: fd92:7065:b8e:ffff::{1..11} ULA
# fd92:7065:b8e:99ff::{1..2}
# fd92:7065:b8e:ff::{1..2}
#
@@ -65,7 +65,7 @@ case "$1" in
    2) ipv6="00" ;;
    *) ipv6="" ;;
esac
- for ns in 1 2 3 4 5 6 7 8 9 10
+ for ns in 1 2 3 4 5 6 7 8 9 10 11
do
    [ $i -gt 0 -a $ns -gt 2 ] && break
    int=`expr $i \* 10 + $ns`
@@ -165,7 +165,7 @@ case "$1" in
    2) ipv6="00" ;;
    *) ipv6="" ;;
esac
- for ns in 10 9 8 7 6 5 4 3 2 1
+ for ns in 11 10 9 8 7 6 5 4 3 2 1
do
    [ $i -gt 0 -a $ns -gt 2 ] && continue
    int=`expr $i \* 10 + $ns - 1`
--
2.34.1

```

Found in path(s):

* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/bind-9.11-CVE-2021-25220-test.patch

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

From d55a57427ee696dec51149950478394e43019607 Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?Petr=C5=A1=C3=ADk?= <pemensik@redhat.com>

Date: Thu, 7 Nov 2019 14:31:03 +0100

Subject: [PATCH] Implement serve-stale in 9.11

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

Squashed commit of the following:

commit 32f47f36e545223b2a4757588d7bd4af8c5f5760

Author: Petr Menšík <pemensik@redhat.com>

Date: Tue Sep 3 18:45:54 2019 +0200

convert serve_stale to db_test

Manual checkout from commit e8f61dd315c5d1c88915bb79361182241e42e47a.

Use test modified for cmocka, including serve-stale tests.

commit 071eb1fb0786f6d614955813d99c3caabff33383

Author: Michal Kpie <michal@isc.org>

Date: Fri Apr 27 09:13:26 2018 +0200

Detect recursion loops during query processing

Interrupt query processing when query_recurse() attempts to ask the same name servers for the same

QNAME/QTYPE tuple for two times in a row as

this indicates that query processing may be stuck for an indeterminate period of time, e.g. due to interactions between features able to restart query_lookup().

(cherry picked from commit 46bb4dd124ed031d4c219d1e37a3c6322092e30c)

commit c12090bc361c7fa4522ace73899e778e44e9b295

Author: Petr Menšík <pemensik@redhat.com>

Date: Mon Sep 2 11:12:32 2019 +0200

Fix test name used in whole test-suite

Correct name is serve-stale

commit ff4d826f295d268a248ca06941d65c903e1b405c

Author: Petr Menšík <pemensik@redhat.com>

Date: Fri Aug 30 17:43:28 2019 +0200

Clean files in more generic rules

commit 8d81ed15eda9a2a11e1433d1fdddacfc772708b6

Author: Petr Menšík <pemensik@redhat.com>

Date: Thu Aug 29 21:27:57 2019 +0200

[rt46602] Pass port numbers to tests via environment variables

Manually applied commit f5d8f079008b648d2e343543e66dd728054c6101

commit 94fafa477891576286def8c4041ad127734af2d1

Author: Tony

Finch <dot@dotat.at>

Date: Tue Apr 10 16:17:57 2018 +0100

Move serve-stale logging to its own category, so that its verbosity can be curtailed.

(cherry picked from commit 4b442c309dfb2c8880b19af4133047655bb734df)

commit e0c884bee98c3d2533dfaa667f58c6a80d8a3a00

Author: Micha Kpie <michal@isc.org>

Date: Fri Apr 27 09:13:26 2018 +0200

Prevent check_stale_header() from leaking rdataset headers

check_stale_header() fails to update the pointer to the previous header while processing rdataset headers eligible for serve-stale, thus enabling rdataset headers to be leaked (i.e. disassociated from a node and left on the relevant TTL heap) while iterating through a node. This can lead to several different assertion failures. Add the missing pointer update.

(cherry picked from commit 391fac1fc8d2e470287b5cc4344b3adb90c6f54a)

commit d724cc1d80ee8d46113eaf82549d49636739b67c

Author: Matthijs Mekking <matthijs@isc.org>

Date: Thu Jan 24 10:24:44

2019 +0100

Print in dump-file stale ttl

This change makes rndc dumpdb correctly print the "; stale" line. It also provides extra information on how long this data may still be served to clients (in other words how long the stale RRset may still be used).

(cherry picked from commit 924ebc605db798e2a383ee5eaaebad739e7c789c)

commit 625da4bd4590ac6108bb30eddd23ceffb245ae49

Author: Micha Kpie <michal@isc.org>

Date: Mon Oct 22 15:26:45 2018 +0200

Check serve-stale behavior with a cold cache

Ensure that serve-stale works as expected when returning stale answers is enabled, the authoritative server does not respond, and there is no

cached answer available.

(cherry picked from commit 27cfe83a388147edfa0451b28c06c746912ea684)

commit d67ae10461c409fdafdbbe64f857db2552b71059

Author: Micha Kpie <michal@isc.org>

Date: Mon Oct 22 15:26:45 2018 +0200

Check TTL of stale answers

Make sure that stale answers returned when the serve-stale feature is enabled have a TTL matching the value of the stale-answer-ttl setting.

(cherry picked from commit 893ab37ce78c658215bd3a019f25afe795b37d5a)

commit 50459107805e68e4a63a8e497bf58ef3ce013ddb

Author: Micha Kpie <michal@isc.org>

Date: Mon Jul 9 14:35:12 2018 +0200

Do not use Net::DNS::Nameserver in the "serve-stale" system test

Net::DNS versions older than 0.67 respond to queries sent to a Net::DNS::Nameserver even if its ReplyHandler returns undef. This makes the "serve-stale" system test fail as it takes advantage of the newer behavior. Since the latest Net::DNS version available with stock RHEL/CentOS 6 packages is 0.65 and we officially support that operating system, bin/tests/system/serve-stale/ans2/ans.pl should behave consistently for various Net::DNS versions. Ensure that by reworking it so that it does not use Net::DNS::Nameserver.

(cherry picked from commit c4209418a50c09142375f7edadca731c526f3d3a)

commit

4b5befc714bb386bd245b1c14ce3bce5ae6fb5fa

Author: Petr Menšík <pemensik@redhat.com>

Date: Tue Jun 5 21:38:29 2018 +0200

Fix server-stale requirement, skip without Time::HiRes

(cherry picked from commit 7a0c7bf9c8e6a724e52635eed213ad25b9504e66)

commit 5ce51a3a7e5ef3087c4d022e3fca42fb2fd0c996

Author: Ondrej Surý <ondrej@sury.org>

Date: Wed Oct 18 13:01:14 2017 +0200

[rt46602] Update server-stale test to run on port passed from run.sh script

(cherry picked from commit f83ebd34b9555a5a834c58146035173bcbd01dda)

commit 3954a9bf3437f6fab050294a7f2f954a23d161ec
Author: Ondrej Surý <ondrej@sury.org>
Date: Wed Oct 18 14:18:59 2017 +0200

[rt46602] Add serve-stale working files to .gitignore

(cherry picked from commit cba162e70e7fac43435a606106841a69ce468526)

commit 112aa21f5fa875494820e4d1eb70e41e10e1aae7
Author: Mark Andrews <marka@isc.org>
Date: Thu Oct 12 15:33:47 2017 +1100

test for Net::DNS::Nameserver

(cherry picked from commit 5b60d0608ac2852753180b762d1917163f9dc315)

commit
9d610e46af8a636f44914cee4cf8b2016054db1e
Author: Mark Andrews <marka@isc.org>
Date: Thu Oct 12 15:19:45 2017 +1100

add Net::DNS prerequisite test

(cherry picked from commit fa644181f51559da3e3913acd72dbc3f6d916e71)

commit e4ea7ba88d9a9a0c79579400c68a5dabe03e8572
Author: Mark Andrews <marka@isc.org>
Date: Wed Sep 6 19:26:10 2017 +1000

add quotes around \$send_response

(cherry picked from commit 023ab19634b287543169e9b7b5259f3126cd60ff)

commit 0af0c5d33c2de34da164571288b650282c6be10a
Author: Mark Andrews <marka@isc.org>
Date: Thu Nov 23 16:11:49 2017 +1100

initalize serve_stale_ttl

(cherry picked from commit 2f4e0e5a81278f59037bf06ae99ff52245cd57e9)

commit fbadd90ee81863d617c4c319d5f0079b877fe102
Author: Evan Hunt <each@isc.org>
Date: Thu Sep 14 11:48:21 2017 -0700

[master] add thanks to APNIC and add missing note for serve-stale

commit deb8adaa59955970b9d2f2fe58060a3cbf08312b

Author: Mark Andrews <marka@isc.org>

Date:

Wed Sep 6 12:16:10 2017 +1000

silence 'staleanswersok' may be used uninitialized in this function warning. [RT #14147]

commit 0e2d03823768dc545015e6ce309777210f4a9f85

Author: Petr Menšík <pemensik@redhat.com>

Date: Thu Aug 29 19:57:58 2019 +0200

More fixes to merge

commit 360e25ffe7623ea0a2eec49395001f4940967776

Author: Mark Andrews <marka@isc.org>

Date: Wed Sep 6 09:58:29 2017 +1000

4700. [func] Serving of stale answers is now supported. This allows named to provide stale cached answers when the authoritative server is under attack. See max-stale-ttl, stale-answer-enable, stale-answer-ttl. [RT #44790]

Signed-off-by: Petr Menšík <pemensik@redhat.com>

```
bin/named/config.c          | 9 +-
bin/named/control.c        | 2 +
bin/named/include/named/control.h | 1 +
bin/named/include/named/log.h | 1 +
bin/named/include/named/query.h | 15 +
bin/named/include/named/server.h | 13 +-
bin/named/log.c            | 1 +
bin/named/query.c         | 164 +++++-
bin/named/server.c        | 177 +++++-
bin/named/statschannel.c  | 6 +
bin/rndc/rndc.c           | 2 +
bin/rndc/rndc.docbook     | 19 +
bin/tests/system/chain/prereq.sh | 7 +
bin/tests/system/conf.sh.in | 2 +-
bin/tests/system/dyndb/driver/db.c | 2 +
bin/tests/system/serve-stale/.gitignore | 11 +
bin/tests/system/serve-stale/ans2/ans.pl.in | 178 ++++++
bin/tests/system/serve-stale/clean.sh | 15 +
.../system/serve-stale/ns1/named1.conf.in | 35 ++
.../system/serve-stale/ns1/named2.conf.in | 35 ++
bin/tests/system/serve-stale/ns1/root.db | 5 +
```

```

.../system/serve-stale/ns3/named.conf.in | 35 ++
bin/tests/system/serve-stale/prereq.sh | 38 ++
bin/tests/system/serve-stale/setup.sh | 13 +
bin/tests/system/serve-stale/tests.sh | 536 ++++++
doc/arm/Bv9ARM-book.xml | 77 +-
doc/arm/logging-categories.xml | 11 +
doc/arm/notes-rh-changes.xml | 14 +-
doc/misc/options | 10 +
lib/bind9/check.c | 78 +-
lib/dns/cache.c | 38 +-
lib/dns/db.c | 22 +
lib/dns/ecdb.c | 4 +-
lib/dns/include/dns/cache.h | 21 +
lib/dns/include/dns/db.h | 35 ++
lib/dns/include/dns/rdataset.h | 11 +
lib/dns/include/dns/resolver.h | 43 +-
lib/dns/include/dns/types.h | 6 +
lib/dns/include/dns/view.h
| 3 +
lib/dns/master.c | 14 +-
lib/dns/masterdump.c | 23 +
lib/dns/rbtodb.c | 207 ++++++-
lib/dns/resolver.c | 79 +-
lib/dns/sdb.c | 4 +-
lib/dns/sdlz.c | 4 +-
lib/dns/tests/db_test.c | 198 ++++++-
lib/dns/view.c | 3 +
lib/isccfg/namedconf.c | 5 +

```

48 files changed, 2126 insertions(+), 106 deletions(-)

```

create mode 100644 bin/tests/system/serve-stale/.gitignore
create mode 100644 bin/tests/system/serve-stale/ans2/ans.pl.in
create mode 100644 bin/tests/system/serve-stale/clean.sh
create mode 100644 bin/tests/system/serve-stale/ns1/named1.conf.in
create mode 100644 bin/tests/system/serve-stale/ns1/named2.conf.in
create mode 100644 bin/tests/system/serve-stale/ns1/root.db
create mode 100644 bin/tests/system/serve-stale/ns3/named.conf.in
create mode 100644 bin/tests/system/serve-stale/prereq.sh
create mode 100644 bin/tests/system/serve-stale/setup.sh
create mode 100755 bin/tests/system/serve-stale/tests.sh

```

```
diff --git a/bin/named/config.c b/bin/named/config.c
```

```
index 9e071bb..d2cd3bc 100644
```

```
--- a/bin/named/config.c
```

```
+++ b/bin/named/config.c
```

```
@@ -182,13 +182,14 @@ options {\n\
```

```
#ifdef HAVE_LMDB
```

```
" lmdb-mapsize 32M;\n"
```

```
#endif
```

```

-" max-acache-size 16M;\n\
- max-cache-size 90%;\n\
+" max-cache-size 90%;\n\
+ max-acache-size 16M;\n\
max-cache-ttl 604800; /* 1 week */\n\
max-clients-per-query 100;\n\
max-ncache-ttl 10800; /* 3 hours */\n\
max-recursion-depth 7;\n\
max-recursion-queries 100;\n\
+ max-stale-ttl 604800; /* 1 week */\n\
message-compression yes;\n\
# min-roots <obsolete>;\n\
minimal-any false;\n\
@@ -203,10 +204,14 @@ options {\n\
request-expire true;\n\
request-ixfr true;\n\
require-server-cookie no;\n\
+ resolver-nonbackoff-tries 3;\n\
+ resolver-retry-interval
800; /* in milliseconds */\n\
# rfc2308-type1 <obsolete>;\n\
root-key-sentinel yes;\n\
servfail-ttl 1;\n\
# sortlist <none>\n\
+ stale-answer-enable false;\n\
+ stale-answer-ttl 1; /* 1 second */\n\
# topology <none>\n\
transfer-format many-answers;\n\
v6-bias 50;\n\
diff --git a/bin/named/control.c b/bin/named/control.c
index 23620b4..0756c73 100644
--- a/bin/named/control.c
+++ b/bin/named/control.c
@@ -282,6 +282,8 @@ ns_control_docommand(isccc_sexpr_t *message, bool readonly,
    result = ns_server_validation(ns_g_server, lex, text);
} else if (command_compare(command, NS_COMMAND_ZONESTATUS)) {
    result = ns_server_zonestatus(ns_g_server, lex, text);
+ } else if (command_compare(command, NS_COMMAND_SERVESTALE)) {
+ result = ns_server_servestale(ns_g_server, lex, text);
} else {
    isc_log_write(ns_g_lctx, NS_LOGCATEGORY_GENERAL,
        NS_LOGMODULE_CONTROL, ISC_LOG_WARNING,
diff --git a/bin/named/include/named/control.h b/bin/named/include/named/control.h
index 56bad8d..37403f1
100644
--- a/bin/named/include/named/control.h
+++ b/bin/named/include/named/control.h
@@ -67,6 +67,7 @@

```

```

#define NS_COMMAND_MKEYS "managed-keys"
#define NS_COMMAND_DNSTAPREOPEN "dnstap-reopen"
#define NS_COMMAND_DNSTAP "dnstap"
+##define NS_COMMAND_SERVESTALE "serve-stale"

isc_result_t
ns_controls_create(ns_server_t *server, ns_controls_t **ctrlsp);
diff --git a/bin/named/include/named/log.h b/bin/named/include/named/log.h
index 76e3a51..0d1d985 100644
--- a/bin/named/include/named/log.h
+++ b/bin/named/include/named/log.h
@@ -30,6 +30,7 @@
#define NS_LOGCATEGORY_UPDATE_SECURITY (&ns_g_categories[6])
#define NS_LOGCATEGORY_QUERY_ERRORS (&ns_g_categories[7])
#define NS_LOGCATEGORY_TAT (&ns_g_categories[8])
+##define NS_LOGCATEGORY_SERVE_STALE (&ns_g_categories[9])

/*
 * Backwards compatibility.
diff --git a/bin/named/include/named/query.h b/bin/named/include/named/query.h
index ef1b172..53c052b 100644
--- a/bin/named/include/named/query.h
+++ b/bin/named/include/named/query.h
@@
-35,6 +35,18 @@ typedef struct ns_dbversion {
ISC_LINK(struct ns_dbversion) link;
} ns_dbversion_t;

+/*%
+ * nameserver recursion parameters, to uniquely identify a recursion
+ * query; this is used to detect a recursion loop
+ */
+typedef struct ns_query_recreparam {
+ dns_rdatatype_t qtype;
+ dns_name_t * qname;
+ dns_fixedname_t fqname;
+ dns_name_t * qdomain;
+ dns_fixedname_t fqdomain;
+} ns_query_recreparam_t;
+
+/*% nameserver query structure */
struct ns_query {
unsigned int attributes;
@@ -63,6 +75,7 @@ struct ns_query {
unsigned int dns64_aaaaoklen;
unsigned int dns64_options;
unsigned int dns64_ttl;
+

```

```

struct {
    dns_db_t *    db;
    dns_zone_t *  zone;
@@ -76,6 +89,8 @@ struct ns_query {
    bool authoritative;
    bool is_zone;
} redirect;
+
+ ns_query_reccparam_t reccparam;
    dns_keytag_t root_key_sentinel_keyid;
    bool root_key_sentinel_is_ta;
    bool root_key_sentinel_not_ta;
diff --git a/bin/named/include/named/server.h
    b/bin/named/include/named/server.h
index 0ba2627..08a02dc 100644
--- a/bin/named/include/named/server.h
+++ b/bin/named/include/named/server.h
@@ -227,7 +227,10 @@ enum {

    dns_nsstatscounter_reclimitdropped = 58,

- dns_nsstatscounter_max = 59
+ dns_nsstatscounter_trystale = 59,
+ dns_nsstatscounter_usedstale = 60,
+
+ dns_nsstatscounter_max = 61
};

/*%
@@ -766,4 +769,12 @@ ns_server_mkeys(ns_server_t *server, isc_lex_t *lex, isc_buffer_t **text);
isc_result_t
ns_server_dnstap(ns_server_t *server, isc_lex_t *lex, isc_buffer_t **text);

+
+/*%
+ * Control whether stale answers are served or not when configured in
+ * named.conf.
+ */
+isc_result_t
+ns_server_servestale(ns_server_t *server, isc_lex_t *lex,
+    isc_buffer_t **text);
#endif /* NAMED_SERVER_H */
diff --git a/bin/named/log.c b/bin/named/log.c
index acfa766..ea6f114 100644
--- a/bin/named/log.c
+++ b/bin/named/log.c
@@ -38,6 +38,7 @@ static isc_logcategory_t categories[] = {
    { "update-security", 0

```

```

},
{ "query-errors", 0 },
{ "trust-anchor-telemetry", 0 },
+ { "serve-stale", 0 },
{ NULL, 0 }
};

diff --git a/bin/named/query.c b/bin/named/query.c
index b14f081..a95f5ad 100644
--- a/bin/named/query.c
+++ b/bin/named/query.c
@@ -149,10 +149,14 @@ last_cmpxchg(isc_stdtime_t *x, isc_stdtime_t *e, isc_stdtime_t r) {
#define REDIRECT(c) (((c)->query.attributes & \
    NS_QUERYATTR_REDIRECT) != 0)

-/*% No QNAME Proof? */
+/*% Does the rdataset 'r' have an attached 'No QNAME Proof'? */
#define NOQNAME(r) (((r)->attributes & \
    DNS_RDATASETATTR_NOQNAME) != 0)

+/*% Does the rdataset 'r' contain a stale answer? */
+#define STALE(r) (((r)->attributes & \
+    DNS_RDATASETATTR_STALE) != 0)
+
#ifdef WANT_QUERYTRACE
static inline void
client_trace(ns_client_t *client, int level, const char *message) {
@@ -241,6 +245,10 @@ static bool
rpz_ck_dnssec(ns_client_t *client, isc_result_t qresult,
    dns_rdataset_t *rdataset, dns_rdataset_t *sigrdataset);

+static void
+recreparam_update(ns_query_recreparam_t *param, dns_rdatatype_t qtype,
+    const dns_name_t *qname, const dns_name_t *qdomain);
+
+/*%
+ * Increment query statistics counters.
+ */
@@ -494,6 +502,7 @@ query_reset(ns_client_t *client, bool everything) {
    client->query.isreferral = false;
    client->query.dns64_options = 0;
    client->query.dns64_ttl = UINT32_MAX;
+    recreparam_update(&client->query.recreparam, 0, NULL, NULL);
    client->query.root_key_sentinel_keyid = 0;
    client->query.root_key_sentinel_is_ta = false;
    client->query.root_key_sentinel_not_ta = false;
@@ -4305,6 +4314,54 @@ log_quota(ns_client_t *client, isc_stdtime_t *last, isc_stdtime_t now,
}

```

```

}

+/*%
+ * Check whether the recursion parameters in 'param' match the current query's
+ * recursion parameters provided in 'qtype', 'qname', and 'qdomain'.
+ */
+static bool
+recparam_match(const ns_query_recparam_t *param, dns_rdatatype_t qtype,
+ const dns_name_t *qname, const dns_name_t *qdomain)
+{
+ REQUIRE(param
+ != NULL);
+
+
+ return (param->qtype == qtype &&
+ param->qname != NULL && qname != NULL &&
+ param->qdomain != NULL && qdomain != NULL &&
+ dns_name_equal(param->qname, qname) &&
+ dns_name_equal(param->qdomain, qdomain));
+}
+
+/*%
+ * Update 'param' with current query's recursion parameters provided in
+ * 'qtype', 'qname', and 'qdomain'.
+ */
+static void
+recparam_update(ns_query_recparam_t *param, dns_rdatatype_t qtype,
+ const dns_name_t *qname, const dns_name_t *qdomain)
+{
+ isc_result_t result;
+
+ REQUIRE(param != NULL);
+
+
+ param->qtype = qtype;
+
+
+ if (qname == NULL) {
+ param->qname = NULL;
+ } else {
+ param->qname = dns_fixedname_initname(&param->fqname);
+ result = dns_name_copy(qname, param->qname, NULL);
+ RUNTIME_CHECK(result == ISC_R_SUCCESS);
+ }
+
+
+ if (qdomain == NULL) {
+ param->qdomain = NULL;
+ } else {
+ param->qdomain = dns_fixedname_initname(&param->fqdomain);
+ result = dns_name_copy(qdomain, param->qdomain,

```

```

NULL);
+ RUNTIME_CHECK(result == ISC_R_SUCCESS);
+ }
+}
+
static isc_result_t
query_recurse(ns_client_t *client, dns_rdatatype_t qtype, dns_name_t *qname,
             dns_name_t *qdomain, dns_rdataset_t *nameservers,
@@ -4314,6 +4371,19 @@ query_recurse(ns_client_t *client, dns_rdatatype_t qtype, dns_name_t *qname,
             dns_rdataset_t *rdataset, *sigrdataset;
isc_sockaddr_t *peeraddr;

+ /*
+ * Check recursion parameters from the previous query to see if they
+ * match. If not, update recursion parameters and proceed.
+ */
+ if (recparam_match(&client->query.recparam, qtype, qname, qdomain)) {
+ ns_client_log(client, NS_LOGCATEGORY_CLIENT,
+   NS_LOGMODULE_QUERY, ISC_LOG_INFO,
+   "recursion loop detected");
+ return (ISC_R_FAILURE);
+ }
+
+ recparam_update(&client->query.recparam, qtype, qname, qdomain);
+
if (!resuming)
inc_stats(client, dns_nsstatscounter_recursion);

@@ -6821,6 +6891,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t
qtype)
int line = -1;
bool dns64_exclude, dns64, rpz;
bool nxrewrite = false;
+ bool want_stale = false;
bool redirected = false;
dns_clientinfomethods_t cm;
dns_clientinfo_t ci;
@@ -7130,6 +7201,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
type = qtype;

restart:
+ // query_start
CTRACE(ISC_LOG_DEBUG(3), "query_find: restart");
want_restart = false;
authoritative = false;
@@ -7274,6 +7346,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
}

```



```

db_find:
+ // query_lookup
CTRACE(ISC_LOG_DEBUG(3), "query_find: db_find");
/*
 * We'll need some resources...
@@ -7331,6 +7404,35 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
if (!is_zone)
    dns_cache_updatestats(client->view->cache, result);

+ if (want_stale) {
+ char namebuf[DNS_NAME_FORMATSIZE];
+ bool success;
+
+ client->query.dboptions &= ~DNS_DBFIND_STALEOK;
+ want_stale = false;
+
+ if
+ (dns_rdataset_isassociated(rdataset) &&
+  dns_rdataset_count(rdataset) > 0 &&
+  STALE(rdataset)) {
+ rdataset->ttd = client->view->staleanswer_ttl;
+ success = true;
+ } else {
+ success = false;
+ }
+
+ dns_name_format(client->query.qname,
+ namebuf, sizeof(namebuf));
+ isc_log_write(ns_g_lctx, NS_LOGCATEGORY_SERVE_STALE,
+ NS_LOGMODULE_QUERY, ISC_LOG_INFO,
+ "%s resolver failure, stale answer %s",
+ namebuf, success ? "used" : "unavailable");
+
+ if (!success) {
+ QUERY_ERROR(DNS_R_SERVFAIL);
+ goto cleanup;
+ }
+ }
+
resume:
CTRACE(ISC_LOG_DEBUG(3), "query_find: resume");

@@ -7676,6 +7778,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
 * The cache doesn't even have the root NS. Get them from
 * the hints DB.
 */
+ // query_notfound
INSIST(!is_zone);

```

```

if (db != NULL)
    dns_db_detach(&db);
@@ -7738,12 +7841,14 @@ query_find(ns_client_t *client, dns_fetchevent_t
*event, dns_rdatatype_t qtype)
    */
    /* FALLTHROUGH */
case DNS_R_DELEGATION:
+ // query_delegation
    authoritative = false;
    if (is_zone) {
        /*
         * Look to see if we are authoritative for the
         * child zone if the query type is DS.
         */
+ // query_zone_delegation
        if (!RECURSIONOK(client) &&
            (options & DNS_GETDB_NOEXACT) != 0 &&
            qtype == dns_rdatatype_ds) {
@@ -8130,6 +8235,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
            false, true);
        }
    }
+ // query_nxdomain
    if (dns_rdataset_isassociated(rdataset)) {
        /*
         * If we've got a NSEC record, we need to save the
@@ -8450,7 +8556,8 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
        /*
         * If we have a zero ttl from the cache refetch it.
         */
- if (!is_zone && !resuming && rdataset->ttl == 0 &&
+ // query_cname
+ if (!is_zone && !resuming && !STALE(rdataset) && rdataset->ttl == 0 &&
    RECURSIONOK(client))
    {
        if (dns_rdataset_isassociated(rdataset))
@@ -8676,7 +8783,11 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
        "query_find: unexpected error after resuming: %s",
        isc_result_totext(result));
    CTRACE(ISC_LOG_ERROR, errmsg);
- QUERY_ERROR(DNS_R_SERVFAIL);
+ if (resuming) {
+     want_stale = true;
+ } else {
+     QUERY_ERROR(DNS_R_SERVFAIL);
+ }
    goto cleanup;
}

```

```

@@ -8932,7 +9043,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
/*
 * If we have a zero ttl from the cache refetch it.
 */
- if (!is_zone && !resuming && rdataset->ttl == 0 &&
+ if (!is_zone && !resuming && !STALE(rdataset) && rdataset->ttl == 0 &&
    RECURSIONOK(client))
{
    if (dns_rdataset_isassociated(rdataset))
@@ -8943,6 +9054,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
    if (node != NULL)
        dns_db_detachnode(db, &node);

+ // query_respond
    INSIST(!REDIRECT(client));
    result = query_recurse(client, qtype,
        client->query.qname,
@@ -9223,6 +9335,7 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
        dns_fixedname_name(&wildcardname),
        true, false);

cleanup:
+ // query_done
CTRACE(ISC_LOG_DEBUG(3), "query_find: cleanup");
/*
 * General cleanup.
@@ -9279,6 +9392,49 @@ query_find(ns_client_t *client, dns_fetchevent_t *event, dns_rdatatype_t qtype)
    goto restart;
}

+ if (want_stale) {
+     dns_ttl_t stale_ttl = 0;
+     isc_result_t result;
+     bool staleanswersok = false;
+
+     /*
+      * Stale answers only make sense if stale_ttl > 0 but
+      * we want rndc to be able to control returning stale
+      * answers if they are configured.
+      */
+     dns_db_attach(client->view->cachedb, &db);
+     result = dns_db_getservestalettl(db, &stale_ttl);
+     if (result == ISC_R_SUCCESS && stale_ttl > 0) {
+         switch (client->view->staleanswersok) {
+         case dns_stale_answer_yes:
+             staleanswersok
+             = true;
+         case dns_stale_answer_no:
+             break;

```

```

+ case dns_stale_answer_conf:
+ staleanswersok =
+ client->view->staleanswersenable;
+ break;
+ case dns_stale_answer_no:
+ staleanswersok = false;
+ break;
+ }
+ } else {
+ staleanswersok = false;
+ }
+
+ if (staleanswersok) {
+ client->query.dboptions |= DNS_DBFIND_STALEOK;
+ inc_stats(client, dns_nsstatscounter_trystale);
+ if (client->query.fetch != NULL)
+ dns_resolver_destroyfetch(
+ &client->query.fetch);
+ goto db_find;
+ }
+ dns_db_detach(&db);
+ want_stale = false;
+ QUERY_ERROR(DNS_R_SERVFAIL);
+ goto cleanup;
+ }
+
+ if (eresult != ISC_R_SUCCESS &&
+ (!PARTIALANSWER(client) || WANTRECURSION(client)
+ || eresult == DNS_R_DROP)) {
diff --git a/bin/named/server.c b/bin/named/server.c
index 2bdf690..3a5ba91 100644
--- a/bin/named/server.c
+++ b/bin/named/server.c
@@ -1720,7 +1720,8 @@ static bool
cache_sharable(dns_view_t *originview, dns_view_t *view,
               bool new_zero_no_soattl,
               unsigned int new_cleaning_interval,
-               uint64_t new_max_cache_size)
+               uint64_t new_max_cache_size,
+               uint32_t new_stale_ttl)
{
/*
* If the cache cannot even reused for the same view, it cannot be
@@ -1735,6 +1736,7 @@ cache_sharable(dns_view_t *originview, dns_view_t *view,
*/
if (dns_cache_getcleaninginterval(originview->cache) !=
    new_cleaning_interval ||
+   dns_cache_getservestalettl(originview->cache) != new_stale_ttl ||

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```

    dns_cache_getcachesize(originview->cache) != new_max_cache_size) {
    return (false);
}
@@ -3290,6 +3292,7 @@ configure_view(dns_view_t *view, dns_viewlist_t *viewlist,
size_t max_acache_size;
size_t max_adb_size;
uint32_t lame_ttl, fail_ttl;
+ uint32_t max_stale_ttl;
dns_tsig_keyring_t *ring = NULL;
dns_view_t *pview = NULL; /* Production view */
isc_mem_t *cmctx = NULL, *hmctx = NULL;
@@ -3318,6 +3321,7 @@ configure_view(dns_view_t *view, dns_viewlist_t *viewlist,
bool old_rpz_ok
= false;
isc_dscp_t dscp4 = -1, dscp6 = -1;
dns_dyndbctx_t *dctx = NULL;
+ unsigned int resolver_param;

    REQUIRE(DNS_VIEW_VALID(view));

@@ -3732,6 +3736,24 @@ configure_view(dns_view_t *view, dns_viewlist_t *viewlist,
if (view->maxncachettl > 7 * 24 * 3600)
    view->maxncachettl = 7 * 24 * 3600;

+ obj = NULL;
+ result = ns_config_get(maps, "max-stale-ttl", &obj);
+ INSIST(result == ISC_R_SUCCESS);
+ max_stale_ttl = cfg_obj_asuint32(obj);
+
+ obj = NULL;
+ result = ns_config_get(maps, "stale-answer-enable", &obj);
+ INSIST(result == ISC_R_SUCCESS);
+ view->staleanswersenable = cfg_obj_asboolean(obj);
+
+ result = dns_viewlist_find(&ns_g_server->viewlist, view->name,
+     view->rdclass, &pview);
+ if (result == ISC_R_SUCCESS) {
+     view->staleanswersok = pview->staleanswersok;
+     dns_view_detach(&pview);
+ } else
+     view->staleanswersok = dns_stale_answer_conf;
+
+ /*
+  * Configure the view's cache.
+  */
@@ -3765,7 +3787,8 @@ configure_view(dns_view_t *view, dns_viewlist_t
*viewlist,
nsc = cachelist_find(cachelist, cachename, view->rdclass);

```

```

if (nsc != NULL) {
    if (!cache_sharable(nsc->primaryview, view, zero_no_soattl,
-   cleaning_interval, max_cache_size)) {
+   cleaning_interval, max_cache_size,
+   max_stale_ttl)) {
        isc_log_write(ns_g_lctx, NS_LOGCATEGORY_GENERAL,
            NS_LOGMODULE_SERVER, ISC_LOG_ERROR,
            "views %s and %s can't share the cache "
@@ -3864,9 +3887,15 @@ configure_view(dns_view_t *view, dns_viewlist_t *viewlist,

    dns_cache_setcleaninginterval(cache, cleaning_interval);
    dns_cache_setcachesize(cache, max_cache_size);
+   dns_cache_setservestalettl(cache, max_stale_ttl);

    dns_cache_detach(&cache);

+   obj = NULL;
+   result = ns_config_get(maps, "stale-answer-ttl", &obj);
+   INSIST(result == ISC_R_SUCCESS);
+   view->staleanswer-ttl = ISC_MAX(cfg_obj_asuint32(obj), 1);
+
+   /*
+    * Resolver.
+    */
@@ -4055,6 +4084,21 @@ configure_view(dns_view_t *view, dns_viewlist_t *viewlist,
    maxbits = 4096;
    view->maxbits = maxbits;

+   /*
+    * Set resolver retry parameters.
+    */
+   obj = NULL;
+   CHECK(ns_config_get(maps, "resolver-retry-interval", &obj));
+   resolver_param = cfg_obj_asuint32(obj);
+   if (resolver_param > 0)
+   dns_resolver_setretryinterval(view->resolver, resolver_param);
+
+   obj = NULL;
+   CHECK(ns_config_get(maps, "resolver-nonbackoff-tries", &obj));
+   resolver_param = cfg_obj_asuint32(obj);
+   if (resolver_param > 0)
+   dns_resolver_setnonbackofftries(view->resolver, resolver_param);
+
+   /*
+    * Set supported DNSSEC algorithms.
+    */
@@ -14559,3 +14603,132 @@ ns_server_dnstap(ns_server_t *server, isc_lex_t *lex, isc_buffer_t **text) {
    return (ISC_R_NOTIMPLEMENTED);
}

```

```

#endif
}
+
+isc_result_t
+ns_server_servestale(ns_server_t *server, isc_lex_t *lex,
+  isc_buffer_t **text)
+{
+ char *ptr, *classtxt, *viewtxt = NULL;
+ char msg[128];
+ dns_rdataclass_t rdclass = dns_rdataclass_in;
+ dns_view_t *view;
+ bool found = false;
+ dns_stale_answer_t staleanswersok = dns_stale_answer_conf;
+ bool
+ wantstatus = false;
+ isc_result_t result = ISC_R_SUCCESS;
+
+ /* Skip the command name. */
+ ptr = next_token(lex, text);
+ if (ptr == NULL)
+ return (ISC_R_UNEXPECTEDEND);
+
+ ptr = next_token(lex, NULL);
+ if (ptr == NULL)
+ return (ISC_R_UNEXPECTEDEND);
+
+ if (strcasecmp(ptr, "on") == 0 || strcasecmp(ptr, "yes") == 0) {
+ staleanswersok = dns_stale_answer_yes;
+ } else if (strcasecmp(ptr, "off") == 0 || strcasecmp(ptr, "no") == 0) {
+ staleanswersok = dns_stale_answer_no;
+ } else if (strcasecmp(ptr, "reset") == 0) {
+ staleanswersok = dns_stale_answer_conf;
+ } else if (strcasecmp(ptr, "status") == 0) {
+ wantstatus = true;
+ } else
+ return (DNS_R_SYNTAX);
+
+ /* Look for the optional class name. */
+ classtxt = next_token(lex, text);
+ if (classtxt != NULL) {
+ /* Look for the optional view name. */
+ viewtxt = next_token(lex, text);
+ }
+
+ if (classtxt != NULL) {
+ isc_textregion_t r;
+
+ r.base = classtxt;

```

```

+ r.length = strlen(classtxt);
+ result
= dns_rdataclass_fromtext(&rdclass, &r);
+ if (result != ISC_R_SUCCESS) {
+   if (viewtxt == NULL) {
+     viewtxt = classtxt;
+     classtxt = NULL;
+     result = ISC_R_SUCCESS;
+   } else {
+     snprintf(msg, sizeof(msg),
+      "unknown class '%s'", classtxt);
+     (void) putstr(text, msg);
+     goto cleanup;
+   }
+ }
+
+ result = isc_task_beginexclusive(server->task);
+ RUNTIME_CHECK(result == ISC_R_SUCCESS);
+
+ for (view = ISC_LIST_HEAD(server->viewlist);
+   view != NULL;
+   view = ISC_LIST_NEXT(view, link))
+ {
+   dns_ttl_t stale_ttl = 0;
+   dns_db_t *db = NULL;
+
+   if (classtxt != NULL && rdclass != view->rdclass)
+     continue;
+
+   if (viewtxt != NULL && strcmp(view->name, viewtxt) != 0)
+     continue;
+
+   if (!wantstatus) {
+     view->staleanswersok = staleanswersok;
+     found = true;
+     continue;
+   }
+
+   db = NULL;
+   dns_db_attach(view->cachedb, &db);
+   (void)dns_db_getservstalettl(db, &stale_ttl);
+   dns_db_detach(&db);
+   if (found)
+     CHECK(putstr(text,
+      "\n"));
+   CHECK(putstr(text, view->name));
+   CHECK(putstr(text, ": "));

```



```

+ switch (view->staleanswersok) {
+ case dns_stale_answer_yes:
+   if (stale_ttl > 0)
+     CHECK(putstr(text, "on (rndc)"));
+   else
+     CHECK(putstr(text, "off (not-cached)"));
+   break;
+ case dns_stale_answer_no:
+   CHECK(putstr(text, "off (rndc)"));
+   break;
+ case dns_stale_answer_conf:
+   if (view->staleanswersenable && stale_ttl > 0)
+     CHECK(putstr(text, "on"));
+   else if (view->staleanswersenable)
+     CHECK(putstr(text, "off (not-cached)"));
+   else
+     CHECK(putstr(text, "off"));
+   break;
+ }
+ if (stale_ttl > 0) {
+   snprintf(msg, sizeof(msg),
+    " (stale-answer-ttl=%u max-stale-ttl=%u)",
+    view->staleanswersttl, stale_ttl);
+   CHECK(putstr(text, msg));
+ }
+ found = true;
+ }
+ isc_task_endexclusive(ns_g_server->task);
+
+ if (!found)
+   result = ISC_R_NOTFOUND;
+
+ cleanup:
+ if (isc_buffer_usedlength(*text) > 0)
+   (void) putnull(text);
+
+ return (result);
+}
diff
--git a/bin/named/statschannel.c b/bin/named/statschannel.c
index 12ab048..4938c03 100644
--- a/bin/named/statschannel.c
+++ b/bin/named/statschannel.c
@@ -300,6 +300,12 @@ @ @ init_desc(void) {
SET_NSSTATDESC(reclimitdropped,
    "queries dropped due to recursive client limit",
    "RecLimitDropped");
+ SET_NSSTATDESC(trystale,

```

```

+     "attempts to use stale cache data after lookup failure",
+     "QryTryStale");
+ SET_NSSTATDESC(usedstale,
+     "successful uses of stale cache data after lookup failure",
+     "QryUsedStale");
INSIST(i == dns_nsstatscounter_max);

/* Initialize resolver statistics */
diff --git a/bin/rndc/rndc.c b/bin/rndc/rndc.c
index 0acfe3a..2c21c1d 100644
--- a/bin/rndc/rndc.c
+++ b/bin/rndc/rndc.c
@@ -160,6 +160,8 @@ command is one of the following:\n\
    scan Scan available network interfaces for changes.\n\
    secroots [view ...]\n\
    Write security roots to the secroots file.\n\
+ serve-stale ( yes | no | reset ) [class
+ [view]]\n\
+ Control whether stale answers are returned\n\
    showzone zone [class [view]]\n\
    Print a zone's configuration.\n\
    sign zone [class [view]]\n\
diff --git a/bin/rndc/rndc.docbook b/bin/rndc/rndc.docbook
index 159ded9..12a7208 100644
--- a/bin/rndc/rndc.docbook
+++ b/bin/rndc/rndc.docbook
@@ -689,6 +689,25 @@
</listitem>
    <varlistentry>

+ <varlistentry>
+ <term><userinput>serve-stale ( on | off | reset | status) <optional><replaceable>class</replaceable>
+ <optional><replaceable>view</replaceable></optional></optional></userinput></term>
+ <listitem>
+ <para>
+ Enable, disable, or reset the serving of stale answers
+ as configured in named.conf. Serving of stale answers
+ will remain disabled across <filename>named.conf</filename>
+ reloads if disabled via rndc until it is reset via rndc.
+ </para>
+ <para>
+ Status will report whether serving of stale answers is
+ currently enabled, disabled or not configured for a
+
+ view. If serving of stale records is configured then
+ the values of stale-answer-ttl and max-stale-ttl are
+ reported.
+ </para>

```

```

+ </listitem>
+   </varlistentry>
+
+     <varlistentry>
+       <term><userinput>secroots <optional>-</optional> <optional><replaceable>view
+ ...</replaceable></optional></userinput></term>
+     </listitem>
diff --git a/bin/tests/system/chain/prereq.sh b/bin/tests/system/chain/prereq.sh
index 23bedcd..43385de 100644
--- a/bin/tests/system/chain/prereq.sh
+++ b/bin/tests/system/chain/prereq.sh
@@ -48,3 +48,10 @@ else
    echo_i "This test requires the Net::DNS::Nameserver library." >&2
    exit 1
fi
+if $PERL -e 'use Net::DNS::Nameserver;' 2>/dev/null
+then
+ :
+else
+   echo "I:This test requires the Net::DNS::Nameserver library." >&2
+   exit 1
+fi
diff --git a/bin/tests/system/conf.sh.in b/bin/tests/system/conf.sh.in
index f6412f6..26c8901 100644
--- a/bin/tests/system/conf.sh.in
+++ b/bin/tests/system/conf.sh.in
@@ -128,7 +128,7 @@ PARALLELDIRS="dnssec
rpzrecurse \
reclimit redirect resolver rndc rootkeysentinel rpz \
rrchecker rrl rrsetorder rsabigexponent runtime \
sfcache smartsign sortlist \
- spf staticstub statistics statschannel stub \
+ spf serve-stale staticstub statistics statschannel stub \
tcp tsig tsiggss \
unknown upforwd verify views wildcard \
xfer xferquota zero zonechecks"
diff --git a/bin/tests/system/dyndb/driver/db.c b/bin/tests/system/dyndb/driver/db.c
index 02aa6ab..a77c7de 100644
--- a/bin/tests/system/dyndb/driver/db.c
+++ b/bin/tests/system/dyndb/driver/db.c
@@ -629,6 +629,8 @@ static dns_dbmethods_t sampledb_methods = {
    hashsize,
    NULL,
    NULL,
+ NULL,
+ NULL,
};

```

```

/* Auxiliary driver functions. */
diff --git a/bin/tests/system/serve-stale/.gitignore b/bin/tests/system/serve-stale/.gitignore
new file mode 100644
index 0000000..2272eef
--- /dev/null
+++ b/bin/tests/system/serve-stale/.gitignore
@@ -0,0 +1,11 @@
+/ans2/ans.pid
+/ans2/ans.pl
+/dig.out*
+/ns1/named.conf
+/ns3/named.conf
+/ns3/root.bk
+/rndc.out*
+named.lock
+named.pid
+named.port
+named.run
diff
--git a/bin/tests/system/serve-stale/ans2/ans.pl.in b/bin/tests/system/serve-stale/ans2/ans.pl.in
new file mode 100644
index 0000000..2b39eca
--- /dev/null
+++ b/bin/tests/system/serve-stale/ans2/ans.pl.in
@@ -0,0 +1,178 @@
+#!/usr/bin/env perl
+#
+# Copyright (C) 2014-2016 Internet Systems Consortium, Inc. ("ISC")
+#
+# This Source Code Form is subject to the terms of the Mozilla Public
+# License, v. 2.0. If a copy of the MPL was not distributed with this
+# file, You can obtain one at http://mozilla.org/MPL/2.0/.
+
+
+use strict;
+use warnings;
+
+
+use IO::File;
+use IO::Socket;
+use Getopt::Long;
+use Net::DNS;
+use Time::HiRes qw(usleep nanosleep);
+
+
+my $pidf = new IO::File "ans.pid", "w" or die "cannot open pid file: $!";
+print $pidf "$$\n" or die "cannot write pid file: $!";
+$pidf->close or die "cannot close pid file: $!";
+sub rmpid { unlink "ans.pid"; exit 1; };
+
+
+$$SIG{INT} = \&rmpid;

```

```

+$$SIG{TERM}
+ \&rmpid;
+
+my $send_response = 1;
+
+my $localaddr = "10.53.0.2";
+my $localport = @PORT@;
+my $udpsock = IO::Socket::INET->new(LocalAddr => "$localaddr",
+ LocalPort => $localport, Proto => "udp", Reuse => 1) or die "$!";
+
+#
+# Delegation
+#
+my $SOA = "example 300 IN SOA . . 0 0 0 0 300";
+my $NS = "example 300 IN NS ns.example";
+my $A = "ns.example 300 IN A $localaddr";
+#
+# Records to be TTL stretched
+#
+my $TXT = "data.example 1 IN TXT \"A text record with a 1 second ttl\"";
+my $negSOA = "example 1 IN SOA . . 0 0 0 0 300";
+
+sub reply_handler {
+ my ($qname, $qclass, $qtype) = @_ ;
+ my ($rcode, @ans, @auth, @add);
+
+ print ("request: $qname/$qtype\n");
+ STDOUT->flush();
+
+ # Control whether we send a response or not.
+ # We always respond to control commands.
+ if ($qname eq "enable" ) {
+ if ($qtype eq "TXT") {
+ $send_response = 1;
+ my $rr = new Net::DNS::RR("$qname 0 $qclass TXT \"$send_response\");
+ push @ans, $rr;
+ }
+ $rcode
+ = "NOERROR";
+ return ($rcode, \@ans, \@auth, \@add, { aa => 1 });
+ } elsif ($qname eq "disable" ) {
+ if ($qtype eq "TXT") {
+ $send_response = 0;
+ my $rr = new Net::DNS::RR("$qname 0 $qclass TXT \"$send_response\");
+ push @ans, $rr;
+ }
+ $rcode = "NOERROR";
+ return ($rcode, \@ans, \@auth, \@add, { aa => 1 });

```

```

+ }
+
+ # If we are not responding to queries we are done.
+ return if (!$send_response);
+
+ # Construct the response and send it.
+ if ($qname eq "ns.example" ) {
+ if ($qtype eq "A" ) {
+   my $rr = new Net::DNS::RR($A);
+   push @ans, $rr;
+ } else {
+   my $rr = new Net::DNS::RR($SOA);
+   push @auth, $rr;
+ }
+ $rcode = "NOERROR";
+ } elsif ($qname eq "example") {
+ if ($qtype eq "NS") {
+   my $rr = new Net::DNS::RR($NS);
+   push @auth, $rr;
+   $rr = new Net::DNS::RR($A);
+   push @add, $rr;
+ } elsif ($qtype eq "SOA") {
+   my $rr = new Net::DNS::RR($SOA);
+   push @ans,
+     $rr;
+ } else {
+   my $rr = new Net::DNS::RR($SOA);
+   push @auth, $rr;
+ }
+ $rcode = "NOERROR";
+ } elsif ($qname eq "nodata.example") {
+ my $rr = new Net::DNS::RR($negSOA);
+ push @auth, $rr;
+ $rcode = "NOERROR";
+ } elsif ($qname eq "data.example") {
+ if ($qtype eq "TXT") {
+   my $rr = new Net::DNS::RR($TXT);
+   push @ans, $rr;
+ } else {
+   my $rr = new Net::DNS::RR($negSOA);
+   push @auth, $rr;
+ }
+ $rcode = "NOERROR";
+ } elsif ($qname eq "nxdomain.example") {
+ my $rr = new Net::DNS::RR($negSOA);
+ push @auth, $rr;
+ $rcode = "NXDOMAIN";
+ } else {

```

```

+   my $rr = new Net::DNS::RR($SOA);
+ push @auth, $rr;
+ $rcode = "NXDOMAIN";
+ }
+
+ # mark the answer as authoritative (by setting the 'aa' flag
+ return ($rcode, \@ans, \@auth, \@add, { aa => 1 });
+}
+
+GetOptions(
+ 'port=i' => \$localport,
+);
+
+my $rin;
+my $rout;
+
+for (;;) {
+ $rin = "";
+ vec($rin, fileno($udpsoc), 1) = 1;
+
+ select($rout = $rin, undef, undef, undef);
+
+ if
+   (vec($rout, fileno($udpsoc), 1)) {
+   my ($buf, $request, $err);
+   $udpsoc->recv($buf, 512);
+
+   if ($Net::DNS::VERSION > 0.68) {
+     $request = new Net::DNS::Packet(\$buf, 0);
+     @$ and die @$;
+   } else {
+     my $err;
+     ($request, $err) = new Net::DNS::Packet(\$buf, 0);
+     $err and die $err;
+   }
+
+   my @questions = $request->question;
+   my $qname = $questions[0]->qname;
+   my $qclass = $questions[0]->qclass;
+   my $qtype = $questions[0]->qtype;
+   my $id = $request->header->id;
+
+   my ($rcode, $ans, $auth, $add, $headermask) = reply_handler($qname, $qclass, $qtype);
+
+   if (!defined($rcode)) {
+     print " Silently ignoring query\n";
+     next;
+   }
+ }

```

```

+
+ my $reply = Net::DNS::Packet->new();
+ $reply->header->qr(1);
+ $reply->header->aa(1) if $headermask->{'aa'};
+ $reply->header->id($id);
+ $reply->header->rcode($rcode);
+ $reply->push("question", @questions);
+ $reply->push("answer", @$ans) if $ans;
+ $reply->push("authority", @$auth) if $auth;
+ $reply->push("additional",
  @$add) if $add;
+
+ my $num_chars = $udpsock->send($reply->data);
+ print " Sent $num_chars bytes via UDP\n";
+ }
+}
diff --git a/bin/tests/system/serve-stale/clean.sh b/bin/tests/system/serve-stale/clean.sh
new file mode 100644
index 0000000..2397326
--- /dev/null
+++ b/bin/tests/system/serve-stale/clean.sh
@@ -0,0 +1,15 @@
+# Copyright (C) 2017 Internet Systems Consortium, Inc. ("ISC")
+#
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+# License, v. 2.0. If a copy of the MPL was not distributed with this
+# file, You can obtain one at http://mozilla.org/MPL/2.0/.
+
+rm -f test.output
+rm -f dig.out.test*
+rm -f ans2/ans.pl
+rm -f ns3/root.bk
+rm -f rndc.out.test*
+rm -f ns*/named.memstats
+rm -f ns*/managed-keys.bind
+rm -f ns*/named.conf
+rm -f ns*/named.run
diff --git a/bin/tests/system/serve-stale/ns1/named1.conf.in b/bin/tests/system/serve-stale/ns1/named1.conf.in
new file mode 100644
index 0000000..8a75a10
--- /dev/null
+++
  b/bin/tests/system/serve-stale/ns1/named1.conf.in
@@ -0,0 +1,35 @@
+/*
+ * Copyright (C) 2017 Internet Systems Consortium, Inc. ("ISC")
+ *
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```



```

+ * License, v. 2.0. If a copy of the MPL was not distributed with this
+ * file, You can obtain one at http://mozilla.org/MPL/2.0/.
+ */
+
+key rndc_key {
+    secret "1234abcd8765";
+    algorithm hmac-sha256;
+};
+
+controls {
+    inet 10.53.0.1 port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+options {
+    query-source address 10.53.0.1;
+    notify-source 10.53.0.1;
+    transfer-source 10.53.0.1;
+    port @PORT@;
+    pid-file "named.pid";
+    listen-on { 10.53.0.1; };
+    listen-on-v6 { none; };
+    recursion yes;
+    max-stale-ttl 3600;
+    stale-answer-ttl 1;
+    stale-answer-enable yes;
+};
+
+zone "." {
+    type master;
+    file "root.db";
+};
diff --git a/bin/tests/system/serve-stale/ns1/named2.conf.in b/bin/tests/system/serve-stale/ns1/named2.conf.in
new file mode 100644
index
0000000..072e6ec
--- /dev/null
+++ b/bin/tests/system/serve-stale/ns1/named2.conf.in
@@ -0,0 +1,35 @@
+/*
+ * Copyright (C) 2017 Internet Systems Consortium, Inc. ("ISC")
+ *
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+ * License, v. 2.0. If a copy of the MPL was not distributed with this
+ * file, You can obtain one at http://mozilla.org/MPL/2.0/.
+ */
+
+key rndc_key {
+    secret "1234abcd8765";

```

```

+   algorithm hmac-sha256;
+};
+
+controls {
+ inet 10.53.0.1 port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+options {
+ query-source address 10.53.0.1;
+ notify-source 10.53.0.1;
+ transfer-source 10.53.0.1;
+ port @PORT@;
+ pid-file "named.pid";
+ listen-on { 10.53.0.1; };
+ listen-on-v6 { none; };
+ recursion yes;
+ max-stale-ttl 7200;
+ stale-answer-ttl 2;
+ stale-answer-enable yes;
+};
+
+zone "." {
+ type master;
+ file "root.db";
+};
diff --git a/bin/tests/system/serve-stale/ns1/root.db b/bin/tests/system/serve-stale/ns1/root.db
new
file mode 100644
index 0000000..eb9ad3e
--- /dev/null
+++ b/bin/tests/system/serve-stale/ns1/root.db
@@ -0,0 +1,5 @@
+. 300 SOA . . 0 0 0 0 0
+. 300 NS ns.nil.
+ns.nil. 300 A 10.53.0.1
+example. 300 NS ns.example.
+ns.example. 300 A 10.53.0.2
diff --git a/bin/tests/system/serve-stale/ns3/named.conf.in b/bin/tests/system/serve-stale/ns3/named.conf.in
new file mode 100644
index 0000000..24a3293
--- /dev/null
+++ b/bin/tests/system/serve-stale/ns3/named.conf.in
@@ -0,0 +1,35 @@
+/*
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+ * License, v. 2.0. If a copy of the MPL was not distributed with this

```

```

+ * file, You can obtain one at http://mozilla.org/MPL/2.0/.
+ */
+
+key rndc_key {
+    secret "1234abcd8765";
+    algorithm hmac-sha256;
+};
+
+controls {
+    inet 10.53.0.3 port @CONTROLPORT@ allow { any; } keys { rndc_key; };
+};
+
+options {
+    query-source address 10.53.0.3;
+    notify-source
+    10.53.0.3;
+    transfer-source 10.53.0.3;
+    port @PORT@;
+    pid-file "named.pid";
+    listen-on { 10.53.0.3; };
+    listen-on-v6 { none; };
+    recursion yes;
+    // max-stale-ttl 3600;
+    // stale-answer-ttl 3;
+};
+
+zone "." {
+    type slave;
+    masters { 10.53.0.1; };
+    file "root.bk";
+};
diff --git a/bin/tests/system/serve-stale/prereq.sh b/bin/tests/system/serve-stale/prereq.sh
new file mode 100644
index 0000000..a3bbef8
--- /dev/null
+++ b/bin/tests/system/serve-stale/prereq.sh
@@ -0,0 +1,38 @@
+#!/bin/sh
+#
+# Copyright (C) 2011, 2012, 2014, 2016 Internet Systems Consortium, Inc. ("ISC")
+#
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+# License, v. 2.0. If a copy of the MPL was not distributed with this
+# file, You can obtain one at http://mozilla.org/MPL/2.0/.
+
+
+SYSTEMTESTTOP=..
+. $SYSTEMTESTTOP/conf.sh
+

```

```

+if $PERL -e 'use Net::DNS;' 2>/dev/null
+then
+  if $PERL -e 'use Net::DNS; die if ($Net::DNS::VERSION >= 0.69 && $Net::DNS::VERSION <= 0.74);'
    2>/dev/null
+  then
+    :
+  else
+    echo "I:Net::DNS versions 0.69 to 0.74 have bugs that cause this test to fail: please update." >&2
+    exit 1
+  fi
+else
+  echo "I:This test requires the Net::DNS library." >&2
+  exit 1
+fi
+if $PERL -e 'use Net::DNS::Nameserver;' 2>/dev/null
+then
+  :
+else
+  echo "I:This test requires the Net::DNS::Nameserver library." >&2
+  exit 1
+fi
+if $PERL -e 'use Time::HiRes;' 2>/dev/null
+then
+  :
+else
+  echo "I:This test requires the Time::HiRes library." >&2
+  exit 1
+fi
diff --git a/bin/tests/system/serve-stale/setup.sh b/bin/tests/system/serve-stale/setup.sh
new file mode 100644
index 0000000..690f43c
--- /dev/null
+++ b/bin/tests/system/serve-stale/setup.sh
@@ -0,0 +1,13 @@
+#!/bin/sh
+# Copyright (C) 2017 Internet Systems Consortium, Inc. ("ISC")
+#
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+# License, v. 2.0. If a copy of the MPL was not distributed with this
+# file, You can obtain one at
+http://mozilla.org/MPL/2.0/.
+
+SYSTEMTESTTOP=..
+. $SYSTEMTESTTOP/conf.sh
+
+copy_setports ns1/named1.conf.in ns1/named.conf
+copy_setports ans2/ans.pl.in ans2/ans.pl
+copy_setports ns3/named.conf.in ns3/named.conf

```

```

diff --git a/bin/tests/system/serve-stale/tests.sh b/bin/tests/system/serve-stale/tests.sh
new file mode 100755
index 0000000..201c996
--- /dev/null
+++ b/bin/tests/system/serve-stale/tests.sh
@@ -0,0 +1,536 @@
+#!/bin/sh
+#
+# Copyright (C) 2000, 2001, 2004, 2007, 2009-2016 Internet Systems Consortium, Inc. ("ISC")
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+# License, v. 2.0. If a copy of the MPL was not distributed with this
+# file, You can obtain one at http://mozilla.org/MPL/2.0/.
+
+
+SYSTEMTESTTOP=..
+. $SYSTEMTESTTOP/conf.sh
+
+while getopts "p:c:" flag; do
+  case "$flag" in
+  p) port=$OPTARG ;;
+  c) controlport=$OPTARG ;;
+  *) exit 1 ;;
+  esac
+done
+
+RNDCCMD="$RNDCC -c $SYSTEMTESTTOP/common/rndc.conf -p ${CONTROLPORT} -s"
+
+echo
+"RNDCCMD: ${RNDCCMD}"
+
+status=0
+n=0
+
+#echo "T:check ans.pl server ($n)"
+##$DIG -p ${PORT} @10.53.0.2 example NS
+##$DIG -p ${PORT} @10.53.0.2 example SOA
+##$DIG -p ${PORT} @10.53.0.2 ns.example A
+##$DIG -p ${PORT} @10.53.0.2 ns.example AAAA
+##$DIG -p ${PORT} @10.53.0.2 txt enable
+##$DIG -p ${PORT} @10.53.0.2 txt disable
+##$DIG -p ${PORT} @10.53.0.2 ns.example AAAA
+##$DIG -p ${PORT} @10.53.0.2 txt enable
+##$DIG -p ${PORT} @10.53.0.2 ns.example AAAA
+###$DIG -p ${PORT} @10.53.0.2 data.example TXT
+##$DIG -p ${PORT} @10.53.0.2 nodata.example TXT
+##$DIG -p ${PORT} @10.53.0.2 nxdomain.example TXT
+
+n=`expr $n + 1`

```

```

+echo "I:prime cache data.example ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:prime cache nodata.example ($n)"
+ret=0
+$DIG -p ${PORT}
@10.53.0.1 nodata.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:prime cache nxdomain.example ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:disable responses from authoritative server ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.2 txt disable > dig.out.test$n
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "TXT.\"0\"" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+sleep 1
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale
status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: on (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`

```

```

+echo "I:check stale data.example ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nodata.example ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nodata.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo
"I:check stale nxdomain.example ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale off' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale off || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: off (rndc) (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale data.example (serve-stale off) ($n)"
+ret=0

```

```

+$DIG -p ${PORT} @10.53.0.1 data.example
TXT > dig.out.test$n
+grep "status: SERVFAIL" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nodata.example (serve-stale off) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nodata.example TXT > dig.out.test$n
+grep "status: SERVFAIL" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nxdomain.example (serve-stale off) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: SERVFAIL" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale on' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale on || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr
$n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: on (rndc) (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale data.example (serve-stale on) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi

```



```

+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nodata.example (serve-stale on) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nodata.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n
> /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nxdomain.example (serve-stale on) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale no' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale no || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: off (rndc) (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr
$status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale data.example (serve-stale no) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test$n
+grep "status: SERVFAIL" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`

```

```

+
+n=`expr $n + 1`
+echo "I:check stale nodata.example (serve-stale no) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nodata.example TXT > dig.out.test$n
+grep "status: SERVFAIL" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nxdomain.example (serve-stale no) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: SERVFAIL" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale
yes' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale yes || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: on (rndc) (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale data.example (serve-stale yes) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nodata.example (serve-stale yes) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nodata.example TXT > dig.out.test$n
+grep

```

```

"status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nxdomain.example (serve-stale yes) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale off' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale off || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale reset' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale reset || ret=1
+if [ $ret != 0 ]; then echo "I:failed";
fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: on (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale data.example (serve-stale reset) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`

```

```

+
+n=`expr $n + 1`
+echo "I:check stale nodata.example (serve-stale reset) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nodata.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n
> /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check stale nxdomain.example (serve-stale reset) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.1 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc serve-stale off' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale off || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0
+$RNDCCMD 10.53.0.1 serve-stale status > rndc.out.test$n 2>&1 || ret=1
+grep '_default: off (rndc) (stale-answer-ttl=1 max-stale-ttl=3600)' rndc.out.test$n > /dev/null || ret=1
+if
[ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:updating ns1/named.conf ($n)"
+ret=0
+sed -e "s/@PORT@/${PORT}/g;s/@CONTROLPORT@/${CONTROLPORT}/g" < ns1/named2.conf.in >
ns1/named.conf
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:running 'rndc reload' ($n)"

```

```

+ret=0
+${RNDCCMD} 10.53.0.1 reload > rncd.out.test${n} 2>&1 || ret=1
+grep "server reload successful" rncd.out.test${n} > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rncd serve-stale status' ($n)"
+ret=0
+${RNDCCMD} 10.53.0.1 serve-stale status > rncd.out.test${n} 2>&1 || ret=1
+grep '_default: off (rncd) (stale-answer-ttl=2 max-stale-ttl=7200)' rncd.out.test${n} > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rncd serve-stale' ($n)"
+ret=0
+${RNDCCMD} 10.53.0.1 serve-stale
> rncd.out.test${n} 2>&1 && ret=1
+grep "unexpected end of input" rncd.out.test${n} > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rncd serve-stale unknown' ($n)"
+ret=0
+${RNDCCMD} 10.53.0.1 serve-stale unknown > rncd.out.test${n} 2>&1 && ret=1
+grep "syntax error" rncd.out.test${n} > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo_i "flush cache, re-enable serve-stale and query again ($n)"
+ret=0
+${RNDCCMD} 10.53.0.1 flushtree example > rncd.out.test${n}.1 2>&1 || ret=1
+${RNDCCMD} 10.53.0.1 serve-stale on > rncd.out.test${n}.2 2>&1 || ret=1
+${DIG} -p ${PORT} @10.53.0.1 data.example TXT > dig.out.test${n}
+grep "status: SERVFAIL" dig.out.test${n} > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test${n} > /dev/null || ret=1
+if [ $ret != 0 ]; then echo_i "failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+ret=0
+${DIG} -p ${PORT} @10.53.0.2 txt enable
> dig.out.test${n}
+grep "ANSWER: 1," dig.out.test${n} > /dev/null || ret=1
+grep "TXT.\\"1\\" dig.out.test${n} > /dev/null || ret=1

```

```

+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:prime cache data.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:prime cache nodata.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 nodata.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status
+ $ret`
+
+n=`expr $n + 1`
+echo "I:prime cache nxdomain.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:disable responses from authoritative server ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.2 txt disable > dig.out.test$n
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "TXT.\"0\"" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+sleep 1
+
+n=`expr $n + 1`
+echo "I:check 'rndc serve-stale status' ($n)"
+ret=0

```

```

+SRNDCCMD 10.53.0.3 serve-stale status > rncd.out.test$N 2>&1 || ret=1
+grep '_default: off (stale-answer-ttl=1 max-stale-ttl=604800)' rncd.out.test$N > /dev/null || ret=1
+if
[ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check fail of data.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 data.example TXT > dig.out.test$N
+grep "status: SERVFAIL" dig.out.test$N > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$N > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check fail of nodata.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 nodata.example TXT > dig.out.test$N
+grep "status: SERVFAIL" dig.out.test$N > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$N > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check fail of nxdomain.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 nxdomain.example TXT > dig.out.test$N
+grep "status: SERVFAIL" dig.out.test$N > /dev/null || ret=1
+grep "ANSWER:
0," dig.out.test$N > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rncd serve-stale on' ($n)"
+ret=0
+SRNDCCMD 10.53.0.3 serve-stale on > rncd.out.test$N 2>&1 || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check 'rncd serve-stale status' ($n)"
+ret=0
+SRNDCCMD 10.53.0.3 serve-stale status > rncd.out.test$N 2>&1 || ret=1
+grep '_default: on (rncd) (stale-answer-ttl=1 max-stale-ttl=604800)' rncd.out.test$N > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`

```

```

+
+n=`expr $n + 1`
+echo "I:check data.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 data.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 1," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo
"I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check nodata.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 nodata.example TXT > dig.out.test$n
+grep "status: NOERROR" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+n=`expr $n + 1`
+echo "I:check nxdomain.example (max-stale-ttl default) ($n)"
+ret=0
+$DIG -p ${PORT} @10.53.0.3 nxdomain.example TXT > dig.out.test$n
+grep "status: NXDOMAIN" dig.out.test$n > /dev/null || ret=1
+grep "ANSWER: 0," dig.out.test$n > /dev/null || ret=1
+grep "example.*1.*IN" dig.out.test$n > /dev/null || ret=1
+if [ $ret != 0 ]; then echo "I:failed"; fi
+status=`expr $status + $ret`
+
+echo "I:exit status: $status"
+[ $status -eq 0 ] || exit 1
diff --git a/doc/arm/Bv9ARM-book.xml b/doc/arm/Bv9ARM-book.xml
index 99c8680..5fbabfe 100644
---
a/doc/arm/Bv9ARM-book.xml
+++ b/doc/arm/Bv9ARM-book.xml
@@ -4336,6 +4336,9 @@ badresp:1,adberr:0,findfail:0,valfail:0]
statement in the <filename>named.conf</filename> file:
</para>
<xi:include xmlns:xi="http://www.w3.org/2001/XInclude" href="options.grammar.xml"/>
+ [ <command>max-stale-ttl</command> <replaceable>number</replaceable> ; ]
+ [ <command>stale-answer-enable</command> <replaceable>yes_or_no</replaceable> ; ]
+ [ <command>stale-answer-ttl</command> <replaceable>number</replaceable> ; ]
</section>

```



```

    <section xml:id="options"><info><title><command>options</command> Statement Definition and
@@ -4429,6 +4432,7 @@ badresp:1,adberr:0,findfail:0,valfail:0]
    <command>dnssec-validation</command>,
    <command>max-cache-ttl</command>,
    <command>max-ncache-ttl</command>,
+ <command>max-stale-ttl</command>,
    <command>max-cache-size</command>, and
    <command>zero-no-soa-ttl</command>.
</para>
@@ -5438,7 +5442,6 @@ options {
    </listitem>
</varlistentry>

-
<varlistentry>
    <term><command>max-zone-ttl</command></term>
    <listitem>
@@ -5474,6 +5477,21 @@ options {
    </listitem>
</varlistentry>

+ <varlistentry>
+ <term><command>stale-answer-ttl</command></term>
+ <listitem>
+ <para>
+ Specifies the TTL to be returned on stale answers.
+ The default is 1 second. The minimal allowed is
+ also 1 second; a value of 0 will be updated silently
+ to 1 second. For stale answers to be returned
+ <option>max-stale-ttl</option> must be set to a
+ non zero value and they must not have been disabled
+ by <command>rncd</command>.
+ </para>
+ </listitem>
+ </varlistentry>
+
<varlistentry>
    <term><command>serial-update-method</command></term>
    <listitem>
@@ -6227,6 +6245,22 @@ options {
    </listitem>
</varlistentry>

+ <varlistentry>
+ <term><command>serve-stale-enable</command></term>
+ <listitem>
+ <para>
+ Enable the

```

returning of stale answers when the

- + nameservers for the zone are not answering. This
- + is off by default but can be enabled/disabled via
- + `<command>rndc server-stale on</command>` and
- + `<command>rndc server-stale off</command>` which
- + override the named.conf setting. `<command>rndc`
- + `server-stale reset</command>` will restore control
- + via named.conf.

</para>

</listitem>

</varlistentry>

+ <varlistentry>

<term><command>nocookie-udp-size</command></term>

<listitem>

@@ -7449,13 +7483,19 @@ options {

<term><command>resolver-query-timeout</command></term>

<listitem>

<para>

- This is the amount of time in seconds that the
- resolver spends attempting to resolve a recursive
- query before failing. The default and minimum
- is `<literal>10</literal>` and the maximum is
- `<literal>30</literal>`. Setting it to
- `<literal>0</literal>` results in the default
- being used.

+ The amount of time in

milliseconds that the resolver

- + will spend attempting to resolve a recursive
- + query before failing. The default and minimum
- + is `<literal>10000</literal>` and the maximum is
- + `<literal>30000</literal>`. Setting it to
- + `<literal>0</literal>` will result in the default
- + being used.

</para>

+ <para>

- + This value was originally specified in seconds.
- + Values less than or equal to 300 will be be treated
- + as seconds and converted to milliseconds before
- + applying the above limits.

</para>

</listitem>

</varlistentry>

@@ -9016,6 +9056,27 @@ avoid-v6-udp-ports { 40000; range 50000 60000; };

</listitem>

</varlistentry>

+ <varlistentry>

```

+ <term><command>max-stale-ttl</command></term>
+ <listitem>
+ <para>
+ Sets the maximum time for which the server will
+ retain records past their normal expiry to
+ return them as stale records when the servers
+ for those records are not reachable. The default
+
+ is to not retain the record.
+ </para>
+ <para>
+ <command>rncd serve-stale</command> can be used
+ to disable and re-enable the serving of stale
+ records at runtime. Reloading or reconfiguring
+ <command>named</command> will not re-enable serving
+ of stale records if they have been disabled via
+ <command>rncd</command>.
+ </para>
+ </listitem>
+ </varlistentry>
+
+ <varlistentry>
+ <term><command>min-roots</command></term>
+ <listitem>
diff --git a/doc/arm/logging-categories.xml b/doc/arm/logging-categories.xml
index 56d05e8..098342b 100644
--- a/doc/arm/logging-categories.xml
+++ b/doc/arm/logging-categories.xml
@@ -311,6 +311,17 @@
</para>
</entry>
</row>
+ <row rowsep="0">
+ <entry colname="1">
+ <para><command>serve-stale</command></para>
+ </entry>
+ <entry colname="2">
+ <para>
+ Whether or not a stale answer is used
+ following a resolver failure.
+ </para>
+ </entry>
+ </row>

<row rowsep="0">
<entry colname="1">
<para><command>spill</command></para>
diff --git a/doc/arm/notes-rh-changes.xml b/doc/arm/notes-rh-changes.xml

```

```

index 89a4961..80b7dee 100644
--- a/doc/arm/notes-rh-changes.xml
+++ b/doc/arm/notes-rh-changes.xml
@@ -12,6 +12,9 @@
<section xml:id="relnotes_rh_changes"><info><title>Red Hat Specific Changes</title></info>
  <itemizedlist>
    <listitem>
+   <para>
+     This version includes some features not present in releases by ISC.
+   </para>
    <para>
      By default, BIND now uses the random number generation functions
      in the cryptographic library (i.e., OpenSSL or a PKCS#11
@@ -36,7 +39,16 @@
      case <filename>/dev/random</filename> will be the default
      entropy source. [RT #31459] [RT #46047]
    </para>
-   </listitem>
+   <para>
+     When acting as a recursive resolver, <command>named</command>
+     can now continue returning answers whose TTLs have expired
+     when the
      authoritative server is under attack and unable to
+     respond. This is controlled by the
+     <command>stale-answer-enable</command>,
+     <command>stale-answer-ttl</command> and
+     <command>max-stale-ttl</command> options. [RT #44790]
+   </para>
+ </listitem>
  </itemizedlist>
</section>

```

```
diff --git a/doc/misc/options b/doc/misc/options
```

```

index e11beed..fde93c7 100644
--- a/doc/misc/options
+++ b/doc/misc/options
@@ -225,6 +225,7 @@ options {
    max-refresh-time <integer>;
    max-retry-time <integer>;
    max-rsa-exponent-size <integer>;
+   max-stale-ttl <ttlval>;
    max-transfer-idle-in <integer>;
    max-transfer-idle-out <integer>;
    max-transfer-time-in <integer>;
@@ -298,7 +299,9 @@ options {
    request-sit <boolean>; // obsolete
    require-server-cookie <boolean>;
    reserved-sockets <integer>;

```

```

+ resolver-nonbackoff-tries <integer>;
  resolver-query-timeout <integer>;
+ resolver-retry-interval
<integer>;
  response-policy { zone <string> [ log <boolean> ] [ max-policy-ttl
    <integer> ] [ policy ( cname | disabled | drop | given | no-op
    | nodata | nxdomain | passthru | tcp-only <quoted_string> ) ] [
@@ -328,6 +331,8 @@ options {
  sit-secret <string>; // obsolete
  sortlist { <address_match_element>; ... };
  stacksize ( default | unlimited | <sizeval> );
+ stale-answer-enable <boolean>;
+ stale-answer-ttl <ttlval>;
  startup-notify-rate <integer>;
  statistics-file <quoted_string>;
  statistics-interval <integer>; // not yet implemented
@@ -539,6 +544,7 @@ view <string> [ <class> ] {
  max-recursion-queries <integer>;
  max-refresh-time <integer>;
  max-retry-time <integer>;
+ max-stale-ttl <ttlval>;
  max-transfer-idle-in <integer>;
  max-transfer-idle-out <integer>;
  max-transfer-time-in <integer>;
@@ -600,7 +606,9
@@ view <string> [ <class> ] {
  request-nsid <boolean>;
  request-sit <boolean>; // obsolete
  require-server-cookie <boolean>;
+ resolver-nonbackoff-tries <integer>;
  resolver-query-timeout <integer>;
+ resolver-retry-interval <integer>;
  response-policy { zone <string> [ log <boolean> ] [ max-policy-ttl
    <integer> ] [ policy ( cname | disabled | drop | given | no-op
    | nodata | nxdomain | passthru | tcp-only <quoted_string> ) ] [
@@ -655,6 +663,8 @@ view <string> [ <class> ] {
  sig-signing-type <integer>;
  sig-validity-interval <integer> [ <integer> ];
  sortlist { <address_match_element>; ... };
+ stale-answer-enable <boolean>;
+ stale-answer-ttl <ttlval>;
  suppress-initial-notify <boolean>; // not yet implemented
  topology { <address_match_element>; ... }; // not implemented
  transfer-format ( many-answers | one-answer );
diff --git a/lib/bind9/check.c
b/lib/bind9/check.c
index bf769fe..6c57fa4 100644
--- a/lib/bind9/check.c

```

```

+++ b/lib/bind9/check.c
@@ -99,7 +99,8 @@ check_orderent(const cfg_obj_t *ent, isc_log_t *logctx) {
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "rrset-order: invalid class '%s'",
        r.base);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}

@@ -112,7 +113,8 @@ check_orderent(const cfg_obj_t *ent, isc_log_t *logctx) {
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "rrset-order: invalid type '%s'",
        r.base);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}

@@ -126,7 +128,8 @@ check_orderent(const cfg_obj_t *ent, isc_log_t *logctx) {
    if (tresult != ISC_R_SUCCESS) {
        cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
            "rrset-order: invalid name '%s'", str);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}

@@ -135,14 +138,16 @@
check_orderent(const cfg_obj_t *ent, isc_log_t *logctx) {
    strcasecmp("order", cfg_obj_asstring(obj)) != 0) {
        cfg_obj_log(ent, logctx, ISC_LOG_ERROR,
            "rrset-order: keyword 'order' missing");
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}

obj = cfg_tuple_get(ent, "ordering");
if (!cfg_obj_isstring(obj)) {
    cfg_obj_log(ent, logctx, ISC_LOG_ERROR,
        "rrset-order: missing ordering");
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}

```

```

} else if (strcasecmp(cfg_obj_asstring(obj), "fixed") == 0) {
#if !DNS_RDATASET_FIXED
    cfg_obj_log(obj, logctx, ISC_LOG_WARNING,
@@ -154,7 +159,8 @@ check_orderent(const cfg_obj_t *ent, isc_log_t *logctx) {
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "rrset-order: invalid order '%s'",
        cfg_obj_asstring(obj));
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
    }
    return (result);
}
@@ -174,7 +180,7
@@ check_order(const cfg_obj_t *options, isc_log_t *logctx) {
    element = cfg_list_next(element)
    {
        tresult = check_orderent(cfg_listelt_value(element), logctx);
- if (tresult != ISC_R_SUCCESS)
+ if (result == ISC_R_SUCCESS && tresult != ISC_R_SUCCESS)
        result = tresult;
    }
    return (result);
@@ -204,7 +210,8 @@ check_dual_stack(const cfg_obj_t *options, isc_log_t *logctx) {
    if (val > UINT16_MAX) {
        cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
            "port '%u' out of range", val);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
    }
}
obj = cfg_tuple_get(alternates, "addresses");
@@ -224,7 +231,8 @@ check_dual_stack(const cfg_obj_t *options, isc_log_t *logctx) {
    if (tresult != ISC_R_SUCCESS) {
        cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
            "bad name '%s'", str);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = tresult;
    }
    obj = cfg_tuple_get(value, "port");
    if (cfg_obj_isuint32(obj)
    {
@@ -232,7 +240,8 @@ check_dual_stack(const cfg_obj_t *options, isc_log_t *logctx) {
    if (val > UINT16_MAX) {
        cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
            "port '%u' out of range", val);

```

```

- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
}
}
}
@@ -1271,7 +1280,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "auto-dnssec may only be activated at the "
        "zone level");
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}

@@ -1291,7 +1301,7 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
{
    obj = cfg_listelt_value(element);
    tresult = mustbesecure(obj, symtab, logctx, mctx);
- if (tresult != ISC_R_SUCCESS)
+ if (result == ISC_R_SUCCESS && tresult != ISC_R_SUCCESS)
    result = tresult;
}
if (symtab != NULL)
@@ -1310,7 +1320,8 @@ check_options(const
    cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "%s: invalid name '%s'",
        server_contact[i], str);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}
}

@@ -1330,7 +1341,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "disable-empty-zone: invalid name '%s'",
        str);
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}
}

@@ -1344,11 +1356,12 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    strlen(cfg_obj_asstring(obj)) > 1024U) {

```



```

cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
    "server-id' too big (>1024 bytes)");
- result = ISC_R_FAILURE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_FAILURE;
}

tresult = check_dscp(options, logctx);
- if (tresult != ISC_R_SUCCESS)
+ if
(result == ISC_R_SUCCESS && tresult != ISC_R_SUCCESS)
result = tresult;

obj = NULL;
@@ -1358,11 +1371,13 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
if (lifetime > 604800) { /* 7 days */
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "nta-lifetime' cannot exceed one week");
- result = ISC_R_RANGE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
} else if (lifetime == 0) {
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "nta-lifetime' may not be zero");
- result = ISC_R_RANGE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
}
}

@@ -1373,7 +1388,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
if (recheck > 604800) { /* 7 days */
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "nta-recheck' cannot exceed one week");
- result = ISC_R_RANGE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
}

if (recheck > lifetime)
@@ -1391,7
+1407,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
if (strcasecmp(ccalg, "aes") == 0) {
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "cookie-algorithm: '%s' not supported", ccalg);
- result = ISC_R_NOTIMPLEMENTED;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_NOTIMPLEMENTED;

```

```

}
#endif

@@ -1480,7 +1497,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    cfg_obj_log(obj, logctx, ISC_LOG_ERROR,
        "%s out of range (%u < %u)",
        fstrm[i].name, value, fstrm[i].min);
- result = ISC_R_RANGE;
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
}

if (strcmp(fstrm[i].name, "fstrm-set-input-queue-size") == 0) {
@@ -1494,7 +1512,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    "%s '%u' not a power-of-2",
    fstrm[i].name,
    cfg_obj_asuint32(obj));
- result = ISC_R_RANGE;
+ if (result == ISC_R_SUCCESS)
+ result
= ISC_R_RANGE;
}
}
}

@@ -1512,7 +1531,8 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    "%" PRIu64 " "
    "is too small",
    mapsize);
- return (ISC_R_RANGE);
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
} else if (mapsize > (1ULL << 40)) { /* 1 terabyte */
    cfg_obj_log(obj, logctx,
        ISC_LOG_ERROR,
@@ -1520,10 +1540,20 @@ check_options(const cfg_obj_t *options, isc_log_t *logctx, isc_mem_t *mctx,
    "%" PRIu64 " "
    "is too large",
    mapsize);
- return (ISC_R_RANGE);
+ if (result == ISC_R_SUCCESS)
+ result = ISC_R_RANGE;
}
}

+ obj = NULL;
+ (void)cfg_map_get(options, "resolver-nonbackoff-tries", &obj);
+ if (obj != NULL && cfg_obj_asuint32(obj) == 0U) {
+ cfg_obj_log(obj, logctx, ISC_LOG_ERROR,

```

```

+   "resolver-nonbackoff-tries' must be >= 1");
+   if (result == ISC_R_SUCCESS)
+       result = ISC_R_RANGE;
+   }
+
+   return (result);
+   }

diff --git a/lib/dns/cache.c
b/lib/dns/cache.c
index 2965a4f..617737a 100644
--- a/lib/dns/cache.c
+++ b/lib/dns/cache.c
@@ -138,6 +138,7 @@ struct dns_cache {
int db_argc;
char **db_argv;
size_t size;
+ dns_ttl_t serve_stale_ttl;
isc_stats_t *stats;

/* Locked by 'filelock'. */
@@ -167,9 +168,13 @@ overmem_cleaning_action(isc_task_t *task, isc_event_t *event);

static inline isc_result_t
cache_create_db(dns_cache_t *cache, dns_db_t **db) {
- return (dns_db_create(cache->mctx, cache->db_type, dns_rootname,
-   dns_dbtype_cache, cache->rdclass,
-   cache->db_argc, cache->db_argv, db));
+ isc_result_t result;
+ result = dns_db_create(cache->mctx, cache->db_type, dns_rootname,
+   dns_dbtype_cache, cache->rdclass,
+   cache->db_argc, cache->db_argv, db);
+ if (result == ISC_R_SUCCESS)
+   dns_db_setservestalettl(*db, cache->serve_stale_ttl);
+ return (result);
+ }

isc_result_t
@@ -238,6 +243,7 @@ dns_cache_create3(isc_mem_t *cmctx, isc_mem_t *hmctx, isc_taskmgr_t
*taskmgr,
cache->references = 1;
cache->live_tasks = 0;
cache->rdclass = rdclass;
+ cache->serve_stale_ttl = 0;

cache->stats = NULL;
result = isc_stats_create(cmctx, &cache->stats,
@@ -1092,6 +1098,32 @@ dns_cache_getcachesize(dns_cache_t *cache) {

```

```

return (size);
}

+void
+dns_cache_setservestalettl(dns_cache_t *cache, dns_ttl_t ttl) {
+ REQUIRE(VALID_CACHE(cache));
+
+ LOCK(&cache->lock);
+ cache->serve_stale_ttl = ttl;
+ UNLOCK(&cache->lock);
+
+ (void)dns_db_setservestalettl(cache->db, ttl);
+}
+
+dns_ttl_t
+dns_cache_getservestalettl(dns_cache_t *cache) {
+ dns_ttl_t ttl;
+ isc_result_t result;
+
+ REQUIRE(VALID_CACHE(cache));
+
+ /*
+ * Could get it straight from the dns_cache_t, but use db
+ * to confirm the value that the db is really using.
+ */
+ result = dns_db_getservestalettl(cache->db, &ttl);
+ return result == ISC_R_SUCCESS ? ttl : 0;
+}
+
+/*
+ * The cleaner task is shutting down; do the necessary cleanup.
+ */
diff --git a/lib/dns/db.c b/lib/dns/db.c
index
a28a566..c581646 100644
--- a/lib/dns/db.c
+++ b/lib/dns/db.c
@@ -1130,3 +1130,25 @@ dns_db_nodefullname(dns_db_t *db, dns_dbnode_t *node, dns_name_t *name) {
return (ISC_R_NOTIMPLEMENTED);
return ((db->methods->nodefullname)(db, node, name));
}
+
+isc_result_t
+dns_db_setservestalettl(dns_db_t *db, dns_ttl_t ttl)
+{
+ REQUIRE(DNS_DB_VALID(db));
+ REQUIRE((db->attributes & DNS_DBATTR_CACHE) != 0);
+

```

```

+ if (db->methods->setservestalettl != NULL)
+ return ((db->methods->setservestalettl)(db, ttl));
+ return (ISC_R_NOTIMPLEMENTED);
+}
+
+isc_result_t
+dns_db_getservestalettl(dns_db_t *db, dns_ttl_t *ttl)
+{
+ REQUIRE(DNS_DB_VALID(db));
+ REQUIRE((db->attributes & DNS_DBATTR_CACHE) != 0);
+
+ if (db->methods->getservestalettl != NULL)
+ return ((db->methods->getservestalettl)(db, ttl));
+ return (ISC_R_NOTIMPLEMENTED);
+}
diff --git a/lib/dns/ecdb.c b/lib/dns/ecdb.c
index fc94ccf..76d0417 100644
--- a/lib/dns/ecdb.c
+++ b/lib/dns/ecdb.c
@@ -588,7 +588,9 @@ static dns_dbmethods_t
ecdb_methods = {
NULL, /* setcachestats */
NULL, /* hashsize */
NULL, /* nodefullname */
- NULL /* getsize */
+ NULL, /* getsize */
+ NULL, /* setservestalettl */
+ NULL /* getservestalettl */
};

static isc_result_t
diff --git a/lib/dns/include/dns/cache.h b/lib/dns/include/dns/cache.h
index ab4b0b5..e158014 100644
--- a/lib/dns/include/dns/cache.h
+++ b/lib/dns/include/dns/cache.h
@@ -260,6 +260,27 @@ dns_cache_getcachesize(dns_cache_t *cache);
 * Get the maximum cache size.
 */

+void
+dns_cache_setservestalettl(dns_cache_t *cache, dns_ttl_t ttl);
+/*%<
+ * Sets the maximum length of time that cached answers may be retained
+ * past their normal TTL. Default value for the library is 0, disabling
+ * the use of stale data.
+ *
+ * Requires:
+ * \li 'cache' to be valid.

```

```

+ */
+
+dns_ttl_t
+dns_cache_getservestalettl(dns_cache_t *cache);
+/*%<
+ * Gets the maximum length of time that cached answers may be kept past
+ * normal expiry.
+ *
+ * Requires:
+ * \li 'cache'
+ * to be valid.
+ */
+
+isc_result_t
+dns_cache_flush(dns_cache_t *cache);
+/*%<
diff --git a/lib/dns/include/dns/db.h b/lib/dns/include/dns/db.h
index 96f3a8f..452770f 100644
--- a/lib/dns/include/dns/db.h
+++ b/lib/dns/include/dns/db.h
@@ -195,6 +195,8 @@ typedef struct dns_dbmethods {
     dns_name_t *name);
isc_result_t (*getsize)(dns_db_t *db, dns_dbversion_t *version,
    uint64_t *records, uint64_t *bytes);
+ isc_result_t (*setservestalettl)(dns_db_t *db, dns_ttl_t ttl);
+ isc_result_t (*getservestalettl)(dns_db_t *db, dns_ttl_t *ttl);
} dns_dbmethods_t;

typedef isc_result_t
@@ -253,6 +255,7 @@ struct dns_dbonupdatelistener {
#define DNS_DBFIND_FORCENSEC3 0x0080
#define DNS_DBFIND_ADDITIONALOK 0x0100
#define DNS_DBFIND_NOZONECUT 0x0200
+#define DNS_DBFIND_STALEOK 0x0400
+/* @ */
+
+/* @ {
@@ -1683,6 +1686,38 @@ dns_db_nodefullname(dns_db_t *db, dns_dbnode_t *node, dns_name_t *name);
+ * \li 'db' is a valid database
+ * \li 'node' and 'name' are not NULL
+ */
+
+isc_result_t
+dns_db_setservestalettl(dns_db_t *db, dns_ttl_t ttl);
+/*%<
+ * Sets the maximum length of time that cached answers may be retained
+ * past their normal TTL. Default value for the library is 0, disabling
+ * the use of stale data.

```

```

+ *
+ * Requires:
+ * \li 'db' is a valid cache database.
+ * \li 'ttl' is the number of seconds to retain data past its normal expiry.
+ *
+ * Returns:
+ * \li #ISC_R_SUCCESS
+ * \li #ISC_R_NOTIMPLEMENTED - Not supported by this DB implementation.
+ */
+
+isc_result_t
+dns_db_getservestalettl(dns_db_t *db, dns_ttl_t *ttl);
+/*%<
+ * Gets maximum length of time that cached answers may be kept past
+ * normal TTL expiration.
+ *
+ * Requires:
+ * \li 'db' is a valid cache database.
+ * \li 'ttl' is the number of seconds to retain data past its normal expiry.
+ *
+ * Returns:
+ * \li #ISC_R_SUCCESS
+ * \li #ISC_R_NOTIMPLEMENTED - Not supported by this DB implementation.
+ */
+
ISC_LANG_ENDDECLS

#endif /* DNS_DB_H */
diff --git a/lib/dns/include/dns/rdataset.h
b/lib/dns/include/dns/rdataset.h
index ed9119a..710e97c 100644
--- a/lib/dns/include/dns/rdataset.h
+++ b/lib/dns/include/dns/rdataset.h
@@ -128,6 +128,7 @@ struct dns_rdataset {
unsigned int magic; /* XXX ? */
dns_rdatasetmethods_t * methods;
ISC_LINK(dns_rdataset_t) link;
+
+/*
+ * XXX do we need these, or should they be retrieved by methods?
+ * Leaning towards the latter, since they are not frequently required
@@ -136,12 +137,19 @@ struct dns_rdataset {
dns_rdataclass_t rdclass;
dns_rdatatype_t type;
dns_ttl_t ttl;
+ */
+ * Stale ttl is used to see how long this RRset can still be used
+ * to serve to clients, after the TTL has expired.

```

```

+ */
+ dns_ttl_t stale_ttl;
dns_trust_t trust;
dns_rdatatype_t covers;
+
/*
* attributes
*/
unsigned int attributes;
+
/*%
* the counter provides the starting point in the "cyclic" order.
* The value UINT32_MAX has a special meaning of "picking up a
@@ -149,11 +157,13
@@ struct dns_rdataset {
* increment the counter.
*/
uint32_t count;
+
/*
* This RRSIG RRset should be re-generated around this time.
* Only valid if DNS_RDATASETATTR_RESIGN is set in attributes.
*/
isc_stdtime_t resign;
+
/*@ {*/
/*%
* These are for use by the rdataset implementation, and MUST NOT
@@ -206,6 +216,7 @@ struct dns_rdataset {
#define DNS_RDATASETATTR_OPTOUT 0x00100000 /*%< OPTOUT proof */
#define DNS_RDATASETATTR_NEGATIVE 0x00200000
#define DNS_RDATASETATTR_PREFETCH 0x00400000
+#define DNS_RDATASETATTR_STALE 0x01000000

/*%
* _OMITDNSSEC:
diff --git a/lib/dns/include/dns/resolver.h b/lib/dns/include/dns/resolver.h
index 7b3c047..bd7d225 100644
--- a/lib/dns/include/dns/resolver.h
+++ b/lib/dns/include/dns/resolver.h
@@ -547,9 +547,12 @@ dns_resolver_getmustbesecure(dns_resolver_t *resolver, dns_name_t *name);

void
-dns_resolver_settimeout(dns_resolver_t *resolver, unsigned int seconds);
+dns_resolver_settimeout(dns_resolver_t *resolver,
unsigned int timeout);
/*%<

```



```

- * Set the length of time the resolver will work on a query, in seconds.
+ * Set the length of time the resolver will work on a query, in milliseconds.
+ *
+ * 'timeout' was originally defined in seconds, and later redefined to be in
+ * milliseconds. Values less than or equal to 300 are treated as seconds.
+ *
+ * If timeout is 0, the default timeout will be applied.
+ *
@@ -560,7 +563,8 @@ dns_resolver_settimeout(dns_resolver_t *resolver, unsigned int seconds);
unsigned int
dns_resolver_gettimeout(dns_resolver_t *resolver);
/*%<
- * Get the current length of time the resolver will work on a query, in seconds.
+ * Get the current length of time the resolver will work on a query,
+ * in milliseconds.
+ *
+ * Requires:
+ * \li resolver to be valid.
@@ -582,6 +586,39 @@ dns_resolver_getzeronosoattl(dns_resolver_t *resolver);
void
dns_resolver_setzeronosoattl(dns_resolver_t *resolver, bool state);

+unsigned int
+dns_resolver_getretryinterval(dns_resolver_t
+ *resolver);
+
+void
+dns_resolver_setretryinterval(dns_resolver_t *resolver, unsigned int interval);
+/*%<
+ * Sets the amount of time, in milliseconds, that is waited for a reply
+ * to a server before another server is tried. Interacts with the
+ * value of dns_resolver_getnonbackofftries() by trying that number of times
+ * at this interval, before doing exponential backoff and doubling the interval
+ * on each subsequent try, to a maximum of 10 seconds. Defaults to 800 ms;
+ * silently capped at 2000 ms.
+ *
+ * Requires:
+ * \li resolver to be valid.
+ * \li interval > 0.
+ */
+
+unsigned int
+dns_resolver_getnonbackofftries(dns_resolver_t *resolver);
+
+void
+dns_resolver_setnonbackofftries(dns_resolver_t *resolver, unsigned int tries);
+/*%<
+ * Sets the number of failures of getting a reply from remote servers for

```

```

+ * a query before backing off by doubling the retry interval for each
+ * subsequent request sent. Defaults to 3.
+ *
+ * Requires:
+ * \li resolver
+ * to be valid.
+ * \li tries > 0.
+ */
+
unsigned int
dns_resolver_getoptions(dns_resolver_t *resolver);

```

```

diff --git a/lib/dns/include/dns/types.h b/lib/dns/include/dns/types.h
index 2468e3c..934a641 100644
--- a/lib/dns/include/dns/types.h
+++ b/lib/dns/include/dns/types.h
@@ -390,6 +390,12 @@ typedef struct {
size_t count;
} dns_indent_t;

```

```

+typedef enum {
+ dns_stale_answer_no,
+ dns_stale_answer_yes,
+ dns_stale_answer_conf
+} dns_stale_answer_t;
+
+
+/*

```

```

* Functions.
*/

```

```

diff --git a/lib/dns/include/dns/view.h b/lib/dns/include/dns/view.h
index 53f1db1..96148c7 100644
--- a/lib/dns/include/dns/view.h
+++ b/lib/dns/include/dns/view.h
@@ -229,6 +229,9 @@ struct dns_view {
dns_dtenv_t *dtenv; /* Dnstap environment */
dns_dtmsgtype_t dttypes; /* Dnstap message types
to log */
+ dns_ttl_t staleanswerttl;
+ dns_stale_answer_t staleanswersok; /* rndc setting */
+ bool staleanswersenable; /* named.conf setting */
};

```

```

#define DNS_VIEW_MAGIC ISC_MAGIC('V','i','e','w')
diff

```

```

--git a/lib/dns/master.c b/lib/dns/master.c
index 7d26b81..36999b5 100644
--- a/lib/dns/master.c
+++ b/lib/dns/master.c

```

```

@@ -1948,12 +1948,18 @@ load_text(dns_loadctx_t *lctx) {

    if ((lctx->options & DNS_MASTER_AGETTL) != 0) {
        /*
        - * Adjust the TTL for $DATE. If the RR has already
        - * expired, ignore it.
        + * Adjust the TTL for $DATE. If the RR has
        + * already expired, set its TTL to 0. This
        + * should be okay even if the TTL stretching
        + * feature is not in effect, because it will
        + * just be quickly expired by the cache, and the
        + * way this was written before the patch it
        + * could potentially add 0 TTLs anyway.
        */
        if (lctx->ttd < ttd_offset)
        - continue;
        - lctx->ttd -= ttd_offset;
        + lctx->ttd = 0;
        + else
        + lctx->ttd -= ttd_offset;
        }

        /*
diff --git a/lib/dns/masterdump.c b/lib/dns/masterdump.c
index fa839a0..91b3cab 100644
--- a/lib/dns/masterdump.c
+++ b/lib/dns/masterdump.c
@@ -81,6 +81,9 @@
    struct dns_master_style {
        /*
#define DNS_TOTEXT_LINEBREAK_MAXLEN 100

+/*% Does the rdataset 'r' contain a stale answer? */
+#define STALE(r) (((r)->attributes & DNS_RDATASETATTR_STALE) != 0)
+
+/*%
    * Context structure for a masterfile dump in progress.
    */
@@ -94,6 +97,7 @@ typedef struct dns_totext_ctx {
    dns_fixedname_t origin_fixname;
    uint32_t current_ttl;
    bool current_ttl_valid;
+ dns_ttl_t serve_stale_ttl;
} dns_totext_ctx_t;

LIBDNS_EXTERNAL_DATA const dns_master_style_t
@@ -382,6 +386,7 @@ totext_ctx_init(const dns_master_style_t *style, dns_totext_ctx_t *ctx) {
    ctx->neworigin = NULL;

```

```

ctx->current_ttl = 0;
ctx->current_ttl_valid = false;
+ ctx->serve_stale_ttl = 0;

return (ISC_R_SUCCESS);
}
@@ -1028,6 +1033,11 @@ dump_rdatasets_text(isc_mem_t *mctx, dns_name_t *name,
    (ctx->style.flags & DNS_STYLEFLAG_NCACHE) == 0) {
    /* Omit negative cache entries */
    } else {
+   if (STALE(rds)) {
+   fprintf(f, "; stale (for %u more seconds)\n",
+   (rds->stale_ttl
-
+   ctx->serve_stale_ttl));
+   }
    isc_result_t result =
    dump_rdataset(mctx, name, rds, ctx,
    buffer, f);
@@ -1496,6 +1506,16 @@ dumpctx_create(isc_mem_t *mctx, dns_db_t *db, dns_dbversion_t *version,
dns_db_attach(db, &dctx->db);

dctx->do_date = dns_db_iscache(dctx->db);
+ if (dctx->do_date) {
+ /*
+ * Adjust the date backwards by the serve-stale TTL, if any.
+ * This is so the TTL will be loaded correctly when next
+ * started.
+ */
+ (void)dns_db_getservestalettl(dctx->db,
+ &dctx->tctx.serve_stale_ttl);
+ dctx->now -= dctx->tctx.serve_stale_ttl;
+ }

if (dctx->format == dns_masterformat_text &&
    (dctx->tctx.style.flags & DNS_STYLEFLAG_REL_OWNER) != 0) {
@@ -1555,6 +1575,9 @@ writeheader(dns_dumpctx_t *dctx) {
    * it in the zone case.
    */
    if (dctx->do_date) {
+   fprintf(dctx->f,
+   "; using a %d second stale ttl\n",
+   dctx->tctx.serve_stale_ttl);
    result = dns_time32_totext(dctx->now,
&buffer);
    RUNTIME_CHECK(result == ISC_R_SUCCESS);
    isc_buffer_usedregion(&buffer, &r);
diff --git a/lib/dns/rbtdb.c b/lib/dns/rbtdb.c

```

```

index 3a60bcf..8ea4d47 100644
--- a/lib/dns/rbtdb.c
+++ b/lib/dns/rbtdb.c
@@ -511,6 +511,7 @@ typedef ISC_LIST(rdatasetheader_t)  rdatasetheaderlist_t;
typedef ISC_LIST(dns_rbtdbnode_t)  rbtdbnode_t;

#define RDATASET_ATTR_NONEXISTENT  0x0001
+/*%< May be potentially served as stale data. */
#define RDATASET_ATTR_STALE        0x0002
#define RDATASET_ATTR_IGNORE      0x0004
#define RDATASET_ATTR_RETAIN      0x0008
@@ -523,6 +524,8 @@ typedef ISC_LIST(dns_rbtdbnode_t)  rbtdbnode_t;
#define RDATASET_ATTR_CASESET     0x0400
#define RDATASET_ATTR_ZEROTTTL   0x0800
#define RDATASET_ATTR_CASEFULLYLOWER 0x1000
+/*%< Ancient - awaiting cleanup. */
+#define RDATASET_ATTR_ANCIENT     0x2000

typedef struct aCACHE_cbarg {
    dns_rdatasetadditional_t  type;
@@ -573,6 +576,8 @@ struct
    acachectl {
        (((header)->attributes & RDATASET_ATTR_ZEROTTTL) != 0)
#define CASEFULLYLOWER(header) \
        (((header)->attributes & RDATASET_ATTR_CASEFULLYLOWER) != 0)
+#define ANCIENT(header) \
+ (((header)->attributes & RDATASET_ATTR_ANCIENT) != 0)

#define ACTIVE(header, now) \
@@ -632,6 +637,12 @@ typedef enum {
    expire_flush
} expire_t;

+typedef enum {
+ rdataset_ttl_fresh,
+ rdataset_ttl_stale,
+ rdataset_ttl_ancient
+} rdataset_ttl_t;
+
typedef struct rbtdb_version {
    /* Not locked */
    rbtdb_serial_t      serial;
@@ -699,6 +710,12 @@ struct dns_rbtdb {
    dns_dbnode_t        *soanode;
    dns_dbnode_t        *nsnode;

+ /*

```

```

+ * Maximum length of time to keep using a stale answer past its
+ * normal TTL expiry.
+ */
+ dns_ttl_t serve_stale_ttl;
+
/*
 * This is a linked list used to implement the LRU cache. There will
 * be node_lock_count linked lists here. Nodes in bucket 1 will be
@@ -742,6 +759,8 @@ struct dns_rbtodb {
#define
RBTDB_ATTR_LOADED          0x01
#define RBTDB_ATTR_LOADING      0x02

+#define KEEPSTALE(rbtodb) ((rbtodb->serve_stale_ttl > 0)
+
/*%
 * Search Context
 */
@@ -1816,15 +1835,15 @@ rollback_node(dns_rbnode_t *node, rbtodb_serial_t serial) {
}

static inline void
-mark_stale_header(dns_rbtodb_t *rbtodb, rdatasetheader_t *header) {
+mark_header_ancient(dns_rbtodb_t *rbtodb, rdatasetheader_t *header) {

/*
- * If we are already stale there is nothing to do.
+ * If we are already ancient there is nothing to do.
 */
- if ((header->attributes & RDATASET_ATTR_STALE) != 0)
+ if (ANCIENT(header))
return;

- header->attributes |= RDATASET_ATTR_STALE;
+ header->attributes |= RDATASET_ATTR_ANCIENT;
header->node->dirty = 1;

/*
@@ -1865,8 +1884,8 @@ clean_cache_node(dns_rbtodb_t *rbtodb, dns_rbnode_t *node) {
/*
 * If current is nonexistent or stale, we can clean it up.
 */
- if ((current->attributes &
- (RDATASET_ATTR_NONEXISTENT|RDATASET_ATTR_STALE))
!= 0) {
+ if (NONEXISTENT(current) || ANCIENT(current) ||
+ (STALE(current) && !KEEPSTALE(rbtodb))) {
if (top_prev != NULL)

```

```

    top_prev->next = current->next;
    else
@@ -2111,6 +2130,80 @@ delete_node(dns_rbtdb_t *rbtdb, dns_rbtnode_t *node) {
    }
}

+#if 0
+static void
+clean_now_or_later(dns_rbtnode_t *node, dns_rbtdb_t *rbtdb,
+ rdatasetheader_t *header, rdatasetheader_t **header_prevp)
+{
+ if (dns_rbtnode_refcurrent(node) == 0) {
+ isc_mem_t *mctx;
+
+ /*
+ * header->down can be non-NULL if the refcount has just
+ * decremented to 0 but decrement_reference() has not performed
+ * clean_cache_node(), in which case we need to purge the stale
+ * headers first.
+ */
+ mctx = rbtdb->common.mctx;
+ clean_stale_headers(rbtdb, mctx, header);
+ if (*header_prevp != NULL)
+ (*header_prevp)->next = header->next;
+ else
+ node->data = header->next;
+ free_rdataset(rbtdb, mctx, header);
+ } else {
+ header->attributes |= RDATASET_ATTR_STALE |
+
+         RDATASET_ATTR_ANCIENT;
+ node->dirty = 1;
+ *header_prevp = header;
+ }
+}
+
+static rdataset_ttl_t
+check_ttl(dns_rbtnode_t *node, rbtdb_search_t *search,
+ rdatasetheader_t *header, rdatasetheader_t **header_prevp,
+ nodelock_t *lock, isc_rwlocktype_t *locktype)
+{
+ dns_rbtdb_t *rbtdb = search->rbtdb;
+
+ if (header->rdh_ttl > search->now)
+ return rdataset_ttl_fresh;
+
+ /*
+ * This rdataset is stale, but perhaps still usable.

```

```

+ */
+ if (KEEPSTALE(rbtodb) &&
+   header->rdh_ttl + rbtodb->serve_stale_ttl > search->now) {
+   header->attributes |= RDATASET_ATTR_STALE;
+   /* Doesn't set dirty because it doesn't need removal. */
+   return rdataset_ttl_stale;
+ }
+
+ /*
+  * This rdataset is so stale it is no longer usable, even with
+  * KEEPSTALE. If no one else is using the node, we can clean it up
+  * right now, otherwise we mark it as ancient, and the node as dirty,
+  * so it will get cleaned up later.
+  */
+ if ((header->rdh_ttl <= search->now - RBTDB_VIRTUAL)
+     &&
+     (*locktype == isc_rwlocktype_write ||
+      NODE_TRYUPGRADE(lock) == ISC_R_SUCCESS)) {
+   /*
+    * We update the node's status only when we can get write
+    * access; otherwise, we leave others to this work. Periodical
+    * cleaning will eventually take the job as the last resort.
+    * We won't downgrade the lock, since other rdatasets are
+    * probably stale, too.
+    */
+   *locktype = isc_rwlocktype_write;
+   clean_now_or_later(node, rbtodb, header, header_prevp);
+ } else
+ *header_prevp = header;
+
+
+ return rdataset_ttl_ancient;
+ }
+ #endif
+
+ /*
+  * Caller must be holding the node lock.
+  */
+ @@ -3343,6 +3436,12 @@ bind_rdataset(dns_rbtodb_t *rbtodb, dns_rbtodb_t *node, rdatasetheader_t *header,
+   rdataset->attributes |= DNS_RDATASETATTR_OPTOUT;
+   if (PREFETCH(header))
+     rdataset->attributes |= DNS_RDATASETATTR_PREFETCH;
+   if (STALE(header)) {
+     rdataset->attributes |= DNS_RDATASETATTR_STALE;
+     rdataset->stale_ttl =
+     (rbtodb->serve_stale_ttl + header->rdh_ttl)
+     - now;
+     rdataset->ttd = 0;
+   }

```



```

rdataset->private1 = rbtdb;
rdataset->private2 = node;
raw = (unsigned char *)header + sizeof(*header);
@@ -4698,6 +4797,19 @@ check_stale_header(dns_rbtdb_t *node, rdatasetheader_t *header,
#endif

if (!ACTIVE(header, search->now)) {
+ dns_ttl_t stale = header->rdh_ttl +
+ search->rbtdb->serve_stale_ttl;
+ /*
+ * If this data is in the stale window keep it and if
+ * DNS_DBFIND_STALEOK is not set we tell the caller to
+ * skip this record.
+ */
+ if (KEEPSTALE(search->rbtdb) && stale > search->now) {
+ header->attributes |= RDATASET_ATTR_STALE;
+ *header_prev = header;
+ return ((search->options & DNS_DBFIND_STALEOK) == 0);
+ }
+
+ /*
+ * This rdataset is stale. If no one else is using the
+ * node, we can clean it up right now, otherwise we mark
@@ -4737,7 +4849,7 @@ check_stale_header(dns_rbtdb_t *node, rdatasetheader_t *header,
node->data = header->next;
free_rdataset(search->rbtdb, mctx,
header);
} else {
- mark_stale_header(search->rbtdb, header);
+ mark_header_ancient(search->rbtdb, header);
*header_prev = header;
}
} else
@@ -5178,7 +5290,7 @@ cache_find(dns_db_t *db, dns_name_t *name, dns_dbversion_t *version,
&locktype, lock, &search,
&header_prev)) {
/* Do nothing. */
- } else if (EXISTS(header) && (!STALE(header))) {
+ } else if (EXISTS(header) && !ANCIENT(header)) {
/*
* We now know that there is at least one active
* non-stale rdataset at this node.
@@ -5661,7 +5773,7 @@ expirenode(dns_db_t *db, dns_dbnode_t *node, isc_stdtime_t now) {
* recurrent(rbtdb) must be non-zero. This is so
* because 'node' is an argument to the function.
*/
- mark_stale_header(rbtdb, header);
+ mark_header_ancient(rbtdb, header);

```

```

if (log)
isc_log_write(dns_lctx, category, module,
    level, "overmem cache: stale %s",
@@ -5669,7 +5781,7 @@ expirenode(dns_db_t *db, dns_dbnode_t
*node, isc_stdtime_t now) {
} else if (force_expire) {
if (!RETAIN(header)) {
set_ttl(rbtdb, header, 0);
- mark_stale_header(rbtdb, header);
+ mark_header_ancient(rbtdb, header);
} else if (log) {
isc_log_write(dns_lctx, category, module,
    level, "overmem cache: "
@@ -5928,9 +6040,9 @@ cache_findrdataset(dns_db_t *db, dns_dbnode_t *node, dns_dbversion_t *version,
* non-zero. This is so because 'node' is an
* argument to the function.
*/
- mark_stale_header(rbtdb, header);
+ mark_header_ancient(rbtdb, header);
}
- } else if (EXISTS(header) && (!STALE(header))) {
+ } else if (EXISTS(header) && !ANCIENT(header)) {
if (header->type == matchtype)
found = header;
else if (header->type == RBTDB_RDATATYPE_NCACHEANY ||
@@ -6232,7 +6344,7 @@ add32(dns_rbtdb_t *rbtdb, dns_rbtdbnode_t *rbtdbnode, rbtdb_version_t *rbtversion,
topheader = topheader->next)
{
set_ttl(rbtdb, topheader, 0);
- mark_stale_header(rbtdb,
topheader);
+ mark_header_ancient(rbtdb, topheader);
}
goto find_header;
}
@@ -6293,7 +6405,7 @@ add32(dns_rbtdb_t *rbtdb, dns_rbtdbnode_t *rbtdbnode, rbtdb_version_t *rbtversion,
* ncache entry.
*/
set_ttl(rbtdb, topheader, 0);
- mark_stale_header(rbtdb, topheader);
+ mark_header_ancient(rbtdb, topheader);
topheader = NULL;
goto find_header;
}
@@ -6331,8 +6443,11 @@ add32(dns_rbtdb_t *rbtdb, dns_rbtdbnode_t *rbtdbnode, rbtdb_version_t *rbtversion,
}

/*

```

```

- * Trying to add an rdataset with lower trust to a cache DB
- * has no effect, provided that the cache data isn't stale.
+ * Trying to add an rdataset with lower trust to a cache
+ * DB has no effect, provided that the cache data isn't
+ * stale. If the cache data is stale, new lower trust
+ * data will supersede it below. Unclear what the best
+ * policy is here.
*/
if (rbtversion == NULL && trust < header->trust &&
    (ACTIVE(header, now)
    || header_nx)) {
@@ -6362,6 +6477,10 @@ add32(dns_rbtdb_t *rbtdb, dns_rbtnode_t *rbtnode, rbtdb_version_t *rbtversion,

    if ((options & DNS_DBADD_EXACT) != 0)
        flags |= DNS_RDATASLAB_EXACT;
+ /*
+ * TTL use here is irrelevant to the cache;
+ * merge is only done with zonedbs.
+ */
    if ((options & DNS_DBADD_EXACTTTL) != 0 &&
        newheader->rdh_ttl != header->rdh_ttl)
        result = DNS_R_NOTEXACT;
@@ -6405,11 +6524,12 @@ add32(dns_rbtdb_t *rbtdb, dns_rbtnode_t *rbtnode, rbtdb_version_t *rbtversion,
    }
}
/*
- * Don't replace existing NS, A and AAAA RRsets
- * in the cache if they are already exist. This
- * prevents named being locked to old servers.
- * Don't lower trust of existing record if the
- * update is forced.
+ * Don't replace existing NS, A and AAAA RRsets in the
+ * cache if they are already exist. This prevents named
+ * being locked to old servers. Don't lower trust of
+ * existing record if the update is forced. Nothing
+
+ * special to be done w.r.t stale data; it gets replaced
+ * normally further down.
*/
if (IS_CACHE(rbtdb) && ACTIVE(header, now) &&
    header->type == dns_rdatatype_ns &&
@@ -6582,10 +6702,10 @@ add32(dns_rbtdb_t *rbtdb, dns_rbtnode_t *rbtnode, rbtdb_version_t *rbtversion,
    changed->dirty = true;
    if (rbtversion == NULL) {
        set_ttl(rbtdb, header, 0);
-    mark_stale_header(rbtdb, header);
+    mark_header_ancient(rbtdb, header);
        if (sigheader != NULL) {

```

```

    set_ttl(rbtodb, sigheader, 0);
-   mark_stale_header(rbtodb, sigheader);
+   mark_header_ancient(rbtodb, sigheader);
    }
    }
    if (rbtversion != NULL && !header_nx) {
@@ -8436,6 +8556,30 @@ nodefullname(dns_db_t *db, dns_dbnode_t *node, dns_name_t *name) {
    return (result);
}

+static isc_result_t
+setservestalettl(dns_db_t *db, dns_ttl_t ttl) {
+ dns_rbtodb_t *rbtodb = (dns_rbtodb_t *)db;
+
+
+ REQUIRE(VALID_RBTDB(rbtodb));
+ REQUIRE(IS_CACHE(rbtodb));
+
+ /* currently no bounds checking.
+ 0 means disable. */
+ rbtodb->serve_stale_ttl = ttl;
+ return ISC_R_SUCCESS;
+}
+
+static isc_result_t
+getservestalettl(dns_db_t *db, dns_ttl_t *ttl) {
+ dns_rbtodb_t *rbtodb = (dns_rbtodb_t *)db;
+
+
+ REQUIRE(VALID_RBTDB(rbtodb));
+ REQUIRE(IS_CACHE(rbtodb));
+
+ *ttl = rbtodb->serve_stale_ttl;
+ return ISC_R_SUCCESS;
+}
+
+
static dns_dbmethods_t zone_methods = {
    attach,
    detach,
@@ -8481,7 +8625,9 @@ static dns_dbmethods_t zone_methods = {
    NULL,
    hashsize,
    nodefullname,
-   getsize
+   getsize,
+   NULL,
+   NULL
};

```

```

static dns_dbmethods_t cache_methods = {
@@ -8529,7 +8675,9 @@ static dns_dbmethods_t cache_methods = {
    setcachestats,
    hashsize,
    nodefullname,
- NULL
+ NULL,
+ setservestalettl,
+ getservestalettl
};

isc_result_t
@@ -8800,7 +8948,7 @@ dns_rbtdb_create
    rbtdb->rpzs = NULL;
    rbtdb->load_rpzs = NULL;
    rbtdb->rpz_num = DNS_RPZ_INVALID_NUM;
-
+ rbtdb->serve_stale_ttl = 0;
/*
 * Version Initialization.
 */
@@ -9218,7 +9366,8 @@ rdatasetiter_first(dns_rdatasetiter_t
 *iterator) {
    * rdatasets to work.
    */
    if (NONEXISTENT(header) ||
- (now != 0 && now > header->rdh_ttl)
+ (now != 0 && now > header->rdh_ttl
+ + rbtdb->serve_stale_ttl))
        header = NULL;
    break;
} else
@@ -10427,7 +10576,7 @@ static inline bool
need_headerupdate(rdatasetheader_t *header, isc_stdtime_t now) {
    if ((header->attributes &
        (RDASET_ATTR_NONEXISTENT |
- RDASET_ATTR_STALE |
+ RDASET_ATTR_ANCIENT |
        RDASET_ATTR_ZEROTTL)) != 0)
        return (false);

@@ -10533,7 +10682,7 @@ expire_header(dns_rbtdb_t *rbtdb, rdatasetheader_t *header,
    bool tree_locked, expire_t reason)
{
    set_ttl(rbtdb, header, 0);
- mark_stale_header(rbtdb, header);
+ mark_header_ancient(rbtdb, header);

```

```

/*
 * Caller must hold the node (write) lock.
diff --git a/lib/dns/resolver.c b/lib/dns/resolver.c
index 49ec49c..2de70a6 100644
--- a/lib/dns/resolver.c
+++ b/lib/dns/resolver.c
@@ -141,16 +141,17 @@
#endif
/* WANT_QUERYTRACE */

#define US_PER_SEC 1000000U
+#define US_PER_MSEC 1000U
/*
 * The maximum time we will wait for a single query.
 */
-#define MAX_SINGLE_QUERY_TIMEOUT 9U
-#define MAX_SINGLE_QUERY_TIMEOUT_US (MAX_SINGLE_QUERY_TIMEOUT*US_PER_SEC)
+#define MAX_SINGLE_QUERY_TIMEOUT 9000U
+#define MAX_SINGLE_QUERY_TIMEOUT_US (MAX_SINGLE_QUERY_TIMEOUT*US_PER_MSEC)

/*
 * We need to allow a individual query time to complete / timeout.
 */
-#define MINIMUM_QUERY_TIMEOUT (MAX_SINGLE_QUERY_TIMEOUT + 1U)
+#define MINIMUM_QUERY_TIMEOUT (MAX_SINGLE_QUERY_TIMEOUT + 1000U)

/* The default time in seconds for the whole query to live. */
#ifndef DEFAULT_QUERY_TIMEOUT
@@ -159,7 +160,7 @@

/* The maximum time in seconds for the whole query to live. */
#ifndef MAXIMUM_QUERY_TIMEOUT
-#define MAXIMUM_QUERY_TIMEOUT 30
+#define MAXIMUM_QUERY_TIMEOUT 30000
#endif

/* The default maximum number of recursions to follow before giving up. */
@@ -529,6 +530,11 @@ struct dns_resolver {
    dns_fetch_t
    * primefetch;
/* Locked by nlock. */
    unsigned int  nfctx;
+
+ /* Unlocked. Additions for serve-stale feature. */
+ unsigned int  retryinterval; /* in milliseconds */
+ unsigned int  nonbackofftries;
+
};

```

```

#define RES_MAGIC ISC_MAGIC('R', 'e', 's', '!')
@@ -1650,14 +1656,12 @@ fctx_setretryinterval(fetchctx_t *fctx, unsigned int rtt) {
    unsigned int seconds;
    unsigned int us;

+ us = fctx->res->retryinterval * 1000;
/*
- * We retry every .8 seconds the first two times through the address
- * list, and then we do exponential back-off.
+ * Exponential backoff after the first few tries.
*/
- if (fctx->restarts < 3)
- us = 800000;
- else
- us = (800000 << (fctx->restarts - 2));
+ if (fctx->restarts >= fctx->res->nonbackofftries)
+ us <<= (fctx->restarts - fctx->res->nonbackofftries - 1);

/*
* Add a fudge factor to the expected rtt based on the current
@@ -4542,7 +4546,8 @@ fctx_create(dns_resolver_t *res, dns_name_t *name, dns_rdatatype_t type,
*/
* Compute an expiration time for the entire fetch.
*/
- isc_interval_set(&interval, res->query_timeout, 0);
+ isc_interval_set(&interval, res->query_timeout / 1000,
+ res->query_timeout % 1000 * 1000000);
ireresult = isc_time_nowplusinterval(&fctx->expires, &interval);
if (ireresult != ISC_R_SUCCESS) {
    UNEXPECTED_ERROR(__FILE__, __LINE__,
@@ -9105,6 +9110,8 @@ dns_resolver_create(dns_view_t *view,
res->spillattimer = NULL;
res->zspill = 0;
res->zero_no_soa_ttl = false;
+ res->retryinterval = 30000;
+ res->nonbackofftries = 3;
res->query_timeout = DEFAULT_QUERY_TIMEOUT;
res->maxdepth = DEFAULT_RECURSION_DEPTH;
res->maxqueries = DEFAULT_MAX_QUERIES;
@@ -10439,17 +10446,20 @@ dns_resolver_gettimeout(dns_resolver_t *resolver) {
}

void
-dns_resolver_settimeout(dns_resolver_t *resolver, unsigned int seconds) {
+dns_resolver_settimeout(dns_resolver_t *resolver, unsigned int timeout) {
    REQUIRE_VALID_RESOLVER(resolver);

```

```

- if (seconds == 0)
- seconds = DEFAULT_QUERY_TIMEOUT;
- if
  (seconds > MAXIMUM_QUERY_TIMEOUT)
- seconds = MAXIMUM_QUERY_TIMEOUT;
- if (seconds < MINIMUM_QUERY_TIMEOUT)
- seconds = MINIMUM_QUERY_TIMEOUT;
+ if (timeout <= 300)
+ timeout *= 1000;
+
+ if (timeout == 0)
+ timeout = DEFAULT_QUERY_TIMEOUT;
+ if (timeout > MAXIMUM_QUERY_TIMEOUT)
+ timeout = MAXIMUM_QUERY_TIMEOUT;
+ if (timeout < MINIMUM_QUERY_TIMEOUT)
+ timeout = MINIMUM_QUERY_TIMEOUT;

- resolver->query_timeout = seconds;
+ resolver->query_timeout = timeout;
}

void
@@ -10546,3 +10556,34 @@ dns_resolver_getquotaresponse(dns_resolver_t *resolver, dns_quotatype_t which)

return (resolver->quotaresp[which]);
}
+
+unsigned int
+dns_resolver_getretryinterval(dns_resolver_t *resolver) {
+ REQUIRE(VALID_RESOLVER(resolver));
+
+ return (resolver->retryinterval);
+}
+
+void
+dns_resolver_setretryinterval(dns_resolver_t *resolver, unsigned int interval)
+{
+ REQUIRE(VALID_RESOLVER(resolver));
+ REQUIRE(interval > 0);
+
+ resolver->retryinterval = ISC_MIN(interval,
+ 2000);
+}
+
+unsigned int
+dns_resolver_getnonbackofftries(dns_resolver_t *resolver) {
+ REQUIRE(VALID_RESOLVER(resolver));
+

```



```

+ return (resolver->nonbackofftries);
+ }
+
+ void
+ dns_resolver_setnonbackofftries(dns_resolver_t *resolver, unsigned int tries) {
+ REQUIRE(VALID_RESOLVER(resolver));
+ REQUIRE(tries > 0);
+
+ resolver->nonbackofftries = tries;
+ }

```

```
diff --git a/lib/dns/sdb.c b/lib/dns/sdb.c
```

```
index 477bb74..09cf932 100644
```

```
--- a/lib/dns/sdb.c
```

```
+++ b/lib/dns/sdb.c
```

```

@@ -1370,7 +1370,9 @@ static dns_dbmethods_t sdb_methods = {
    NULL, /* setcachestats */
    NULL, /* hashsize */
    NULL, /* nodefullname */
- NULL /* getsize */
+ NULL, /* getsize */
+ NULL, /* setservestalettl */
+ NULL /* getservestalettl */
};

```

```
static isc_result_t
```

```
diff --git a/lib/dns/sdlz.c b/lib/dns/sdlz.c
```

```
index 037d74a..9218fed 100644
```

```
--- a/lib/dns/sdlz.c
```

```
+++ b/lib/dns/sdlz.c
```

```

@@ -1336,7 +1336,9 @@ static dns_dbmethods_t sdlzdb_methods = {
    NULL, /* setcachestats */
    NULL, /* hashsize */
    NULL, /* nodefullname */
- NULL /* getsize */
+ NULL, /* getsize */
+ NULL, /* setservestalettl */
+ NULL /* getservestalettl */
};

```

```
/*
```

```
diff --git a/lib/dns/tests/db_test.c b/lib/dns/tests/db_test.c
```

```
index bc1cc3f..60fdb81 100644
```

```
--- a/lib/dns/tests/db_test.c
```

```
+++ b/lib/dns/tests/db_test.c
```

```
@@ -28,8 +28,9 @@
```

```
#include <dns/db.h>
```

```
#include <dns/dbiterator.h>
```

```

-#include <dns/name.h>
#include <dns/journal.h>
+#include <dns/name.h>
+#include <dns/rdatalist.h>

#include "dnstest.h"

@@ -76,7 +77,7 @@ getoriginnode_test(void **state) {
assert_int_equal(result, ISC_R_SUCCESS);

result = dns_db_create(mymctx, "rbt", dns_rootname, dns_dbtype_zone,
-    dns_rdataclass_in, 0, NULL, &db);
+    dns_rdataclass_in, 0, NULL, &db);
assert_int_equal(result, ISC_R_SUCCESS);

result = dns_db_getoriginnode(db, &node);
@@ -91,6 +92,197 @@ getoriginnode_test(void **state) {
isc_mem_detach(&mymctx);
}

+/* test getservestalettl and setservestalettl */
+static void
+getsetservestalettl_test(void
+**state) {
+ dns_db_t *db = NULL;
+ isc_mem_t *mymctx = NULL;
+ isc_result_t result;
+ dns_ttl_t ttl;
+
+ UNUSED(state);
+
+ result = isc_mem_create(0, 0, &mymctx);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ result = dns_db_create(mymctx, "rbt", dns_rootname, dns_dbtype_cache,
+    dns_rdataclass_in, 0, NULL, &db);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ ttl = 5000;
+ result = dns_db_getservestalettl(db, &ttl);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ assert_int_equal(ttl, 0);
+
+ ttl = 6 * 3600;
+ result = dns_db_setservestalettl(db, ttl);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ ttl = 5000;

```

```

+ result = dns_db_getservestalettl(db, &ttl);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ assert_int_equal(ttl, 6 * 3600);
+
+ dns_db_detach(&db);
+ isc_mem_detach(&mymctx);
+ }
+
+ /* check DNS_DBFIND_STALEOK works */
+static void
+dns_dbfind_staleok_test(void **state) {
+ dns_db_t *db = NULL;
+ dns_dbnode_t *node = NULL;
+ dns_fixedname_t example_fixed;
+ dns_fixedname_t
+ found_fixed;
+ dns_name_t *example;
+ dns_name_t *found;
+ dns_rdatalist_t rdatalist;
+ dns_rdataset_t rdataset;
+ int count;
+ int pass;
+ isc_mem_t *mymctx = NULL;
+ isc_result_t result;
+ unsigned char data[] = { 0x0a, 0x00, 0x00, 0x01 };
+
+ UNUSED(state);
+
+ result = isc_mem_create(0, 0, &mymctx);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ result = dns_db_create(mymctx, "rbt", dns_rootname, dns_dbtype_cache,
+ dns_rdataclass_in, 0, NULL, &db);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ example = dns_fixedname_initname(&example_fixed);
+ found = dns_fixedname_initname(&found_fixed);
+
+ result = dns_name_fromstring(example, "example", 0, NULL);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ /*
+ * Pass 0: default; no stale processing permitted.
+ * Pass 1: stale processing for 1 second.
+ * Pass 2: stale turned off after being on.
+ */
+ for (pass = 0; pass < 3; pass++) {
+ dns_rdata_t rdata = DNS_RDATA_INIT;

```

```

+
+ /* 10.0.0.1 */
+ rdata.data
+ = data;
+ rdata.length = 4;
+ rdata.rdclass = dns_rdataclass_in;
+ rdata.type = dns_rdatatype_a;
+
+ dns_rdatalist_init(&rdatalist);
+ rdatalist.ttl = 2;
+ rdatalist.type = dns_rdatatype_a;
+ rdatalist.rdclass = dns_rdataclass_in;
+ ISC_LIST_APPEND(rdatalist.rdata, &rdata, link);
+
+ switch (pass) {
+ case 0:
+ /* default: stale processing off */
+ break;
+ case 1:
+ /* turn on stale processing */
+ result = dns_db_setservestalettl(db, 1);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ break;
+ case 2:
+ /* turn off stale processing */
+ result = dns_db_setservestalettl(db, 0);
+ assert_int_equal(result, ISC_R_SUCCESS);
+ break;
+ }
+
+ dns_rdataset_init(&rdataset);
+ result = dns_rdatalist_tordataset(&rdatalist, &rdataset);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ result = dns_db_findnode(db, example, true, &node);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ result = dns_db_addrdataset(db, node, NULL, 0, &rdataset, 0,
+
+ NULL);
+ assert_int_equal(result, ISC_R_SUCCESS);
+
+ dns_db_detachnode(db, &node);
+ dns_rdataset_disassociate(&rdataset);
+
+ result = dns_db_find(db, example, NULL, dns_rdatatype_a,
+ 0, 0, &node, found, &rdataset, NULL);
+ assert_int_equal(result, ISC_R_SUCCESS);

```

```

+
+ /*
+ * May loop for up to 2 seconds performing non stale lookups.
+ */
+ count = 0;
+ do {
+   count++;
+   assert_in_range(count, 0, 20); /* loop sanity */
+   assert_int_equal(rdataset.attributes &
+     DNS_RDATASETATTR_STALE, 0);
+   assert_true(rdataset.ttl > 0);
+   dns_db_detachnode(db, &node);
+   dns_rdataset_disassociate(&rdataset);
+
+   usleep(100000); /* 100 ms */
+
+   result = dns_db_find(db, example, NULL,
+     dns_rdatatype_a, 0, 0,
+     &node, found, &rdataset, NULL);
+ } while (result == ISC_R_SUCCESS);
+
+ assert_int_equal(result, ISC_R_NOTFOUND);
+
+ /*
+ * Check whether we can get stale data.
+ */
+ result = dns_db_find(db, example, NULL, dns_rdatatype_a,
+
+   DNS_DBFIND_STALEOK, 0,
+   &node, found, &rdataset, NULL);
+ switch (pass) {
+ case 0:
+   assert_int_equal(result, ISC_R_NOTFOUND);
+   break;
+ case 1:
+   /*
+   * Should loop for 1 second with stale lookups then
+   * stop.
+   */
+   count = 0;
+   do {
+     count++;
+     assert_in_range(count, 0, 49); /* loop sanity */
+     assert_int_equal(result, ISC_R_SUCCESS);
+     assert_int_equal(rdataset.ttl, 0);
+     assert_int_equal(rdataset.attributes &
+       DNS_RDATASETATTR_STALE,
+       DNS_RDATASETATTR_STALE);

```

```

+ dns_db_detachnode(db, &node);
+ dns_rdataset_disassociate(&rdataset);
+
+ usleep(100000); /* 100 ms */
+
+ result = dns_db_find(db, example, NULL,
+     dns_rdatatype_a,
+     DNS_DBFIND_STALEOK,
+     0, &node, found,
+     &rdataset, NULL);
+ } while (result == ISC_R_SUCCESS);
+ assert_in_range(count, 1, 10);
+ assert_int_equal(result, ISC_R_NOTFOUND);
+ break;
+ case 2:
+ assert_int_equal(result,
+     ISC_R_NOTFOUND);
+ break;
+ }
+ }
+
+ dns_db_detach(&db);
+ isc_mem_detach(&mymctx);
+}
+
/* database class */
static void
class_test(void **state) {
@@ -213,6 +405,8 @@ int
main(void) {
    const struct CMUnitTest tests[] = {
        cmocka_unit_test(getoriginnode_test),
+ cmocka_unit_test(getsetserverstalettl_test),
+ cmocka_unit_test(dns_dbfind_staleok_test),
        cmocka_unit_test_setup_teardown(class_test,
            _setup, _teardown),
        cmocka_unit_test_setup_teardown(dbtype_test,
diff --git a/lib/dns/view.c b/lib/dns/view.c
index a7ba613..a644c5f 100644
--- a/lib/dns/view.c
+++ b/lib/dns/view.c
@@ -229,6 +229,9 @@ dns_view_create(isc_mem_t *mctx, dns_rdataclass_t rdclass,
    view->flush = false;
    view->dlv = NULL;
    view->maxudp = 0;
+ view->staleanswerttl = 1;
+ view->staleanswersok = dns_stale_answer_conf;
+ view->staleanswersenable = false;

```

```

view->nocookieudp = 0;
view->maxbits = 0;
view->v4_aaaa = dns_aaaa_ok;
diff --git a/lib/iscconf/namedconf.c b/lib/iscconf/namedconf.c
index
212194e..b562f95 100644
--- a/lib/iscconf/namedconf.c
+++ b/lib/iscconf/namedconf.c
@@ -1778,6 +1778,7 @@ view_clauses[] = {
 { "max-ncache-ttl", &cfg_type_uint32, 0 },
 { "max-recursion-depth", &cfg_type_uint32, 0 },
 { "max-recursion-queries", &cfg_type_uint32, 0 },
+ { "max-stale-ttl", &cfg_type_ttlval, 0 },
 { "max-udp-size", &cfg_type_uint32, 0 },
 { "message-compression", &cfg_type_boolean, 0 },
 { "min-roots", &cfg_type_uint32, CFG_CLAUSEFLAG_NOTIMP },
@@ -1806,7 +1807,9 @@ view_clauses[] = {
 { "request-nsid", &cfg_type_boolean, 0 },
 { "request-sit", &cfg_type_boolean, CFG_CLAUSEFLAG_OBSOLETE },
 { "require-server-cookie", &cfg_type_boolean, 0 },
+ { "resolver-nonbackoff-tries", &cfg_type_uint32, 0 },
 { "resolver-query-timeout", &cfg_type_uint32, 0 },
+ { "resolver-retry-interval", &cfg_type_uint32, 0 },
 { "response-policy", &cfg_type_rpz, 0 },
 { "rfc2308-type1", &cfg_type_boolean, CFG_CLAUSEFLAG_NYI },
 { "root-delegation-only", &cfg_type_optional_exclude,
0 },
@@ -1815,6 +1818,8 @@ view_clauses[] = {
 { "send-cookie", &cfg_type_boolean, 0 },
 { "servfail-ttl", &cfg_type_ttlval, 0 },
 { "sortlist", &cfg_type_bracketed_aml, 0 },
+ { "stale-answer-enable", &cfg_type_boolean, 0 },
+ { "stale-answer-ttl", &cfg_type_ttlval, 0 },
 { "suppress-initial-notify", &cfg_type_boolean, CFG_CLAUSEFLAG_NYI },
 { "topology", &cfg_type_bracketed_aml, CFG_CLAUSEFLAG_NOTIMP },
 { "transfer-format", &cfg_type_transferformat, 0 },
--
2.26.2

```

Found in path(s):

* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/bind-9.11-serve-stale.patch

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

From af3b530773231f8cff6548e36962ad1f25e38c5d Mon Sep 17 00:00:00 2001

From: Evan Hunt <each@isc.org>

Date: Thu, 28 Sep 2017 10:09:22 -0700

Subject: [PATCH] completed and corrected the crypto-random change

4724. [func] By default, BIND now uses the random number functions provided by the crypto library (i.e., OpenSSL or a PKCS#11 provider) as a source of randomness rather than /dev/random. This is suitable for virtual machine environments which have limited entropy pools and lack hardware random number generators.

This can be overridden by specifying another entropy source via the "random-device" option in named.conf, or via the -r command line option; however, for functions requiring full cryptographic strength, such as DNSSEC key generation, this cannot be overridden. In particular, the -r command line option no longer has any effect on dnssec-keygen.

This can be disabled by building with "configure --disable-crypto-rand".

[RT #31459] [RT #46047]

```
---
bin/confgen/keygen.c          | 12 +++---
bin/dnssec/dnssec-keygen.docbook | 24 ++++++-----
bin/dnssec/dnssectool.c      | 12 +++---
bin/named/client.c           | 3 +-
bin/named/config.c           | 4 +-
bin/named/controlconf.c      | 19 +++++---
bin/named/include/named/server.h | 2 +
bin/named/interfacemgr.c     | 1 +
bin/named/query.c            | 1 +
bin/named/server.c           | 52 ++++++-----
bin/nsupdate/nsupdate.c      | 4 +-
bin/tests/system/pipelined/pipequeries.c | 4 +-
bin/tests/system/tkey/keycreate.c | 4 +-
bin/tests/system/tkey/keydelete.c | 5 ---
doc/arm/Bv9ARM-book.xml      | 55 ++++++-----
doc/arm/notes-rh-changes.xml | 42 ++++++-----
doc/arm/notes.xml
    | 1 +
lib/dns/dst_api.c            | 4 +-
lib/dns/include/dst/dst.h    | 14 +++++-
lib/dns/openssl_link.c       | 3 +-
lib/isc/include/isc/entropy.h | 48 ++++++-----
lib/isc/include/isc/random.h | 26 +++++---
lib/isccfg/namedconf.c      | 2 +-
23 files changed, 240 insertions(+), 102 deletions(-)
create mode 100644 doc/arm/notes-rh-changes.xml
```



```

diff --git a/bin/confgen/keygen.c b/bin/confgen/keygen.c
index bd269e7..1ac775f 100644
--- a/bin/confgen/keygen.c
+++ b/bin/confgen/keygen.c
@@ -161,17 +161,15 @@ generate_key(isc_mem_t *mctx, const char *randomfile, dns_secalg_t alg,

DO("create entropy context", isc_entropy_create(mctx, &ectx));

- if (randomfile != NULL && strcmp(randomfile, "keyboard") == 0) {
- randomfile = NULL;
- open_keyboard = ISC_ENTROPY_KEYBOARDYES;
- }
#ifdef ISC_PLATFORM_CRYPTORANDOM
- if (randomfile != NULL &&
-     strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM)
== 0) {
- randomfile = NULL;
+ if (randomfile == NULL) {
+     isc_entropy_usehook(ectx, true);
+ }
#endif
+ if (randomfile != NULL && strcmp(randomfile, "keyboard") == 0) {
+ randomfile = NULL;
+ open_keyboard = ISC_ENTROPY_KEYBOARDYES;
+ }
DO("start entropy source", isc_entropy_usebestsource(ectx,
&entropy_source,
randomfile,

```

```

diff --git a/bin/dnssec/dnssec-keygen.docbook b/bin/dnssec/dnssec-keygen.docbook
index bd19e1d..2c09b30 100644
--- a/bin/dnssec/dnssec-keygen.docbook
+++ b/bin/dnssec/dnssec-keygen.docbook
@@ -349,15 +349,23 @@
<term>-r <replaceable class="parameter">randomdev</replaceable></term>
<listitem>
<para>
- Specifies the source of randomness. If the operating
- system does not provide a <filename>/dev/random</filename>
- or equivalent device, the default source of randomness
- is keyboard input. <filename>randomdev</filename>
- specifies
+ Specifies a source of randomness. Normally, when generating
+
+ DNSSEC keys, this option has no effect; the random number
+ generation function provided by the cryptographic library will
+ be used.
+ </para>

```

```

+ <para>
+   If that behavior is disabled at compile time, however,
+   the specified file will be used as entropy source
+   for key generation. <filename>randomdev</filename> is
+   the name of a character device or file containing random
-   data to be used instead of the default. The special value
-   <filename>keyboard</filename> indicates that keyboard
-   input should be used.
+   data to be used. The special value <filename>keyboard</filename>
+   indicates that keyboard input should be used.
+ </para>
+ <para>
+   The default is <filename>/dev/random</filename> if the
+   operating system provides it or an equivalent device;
+   if not, the default source of randomness is keyboard input.
  </para>
</listitem>
  </varlistentry>
diff --git a/bin/dnssec/dnssectool.c b/bin/dnssec/dnssectool.c
index
2a0f9c6..6fcd411 100644
--- a/bin/dnssec/dnssectool.c
+++ b/bin/dnssec/dnssectool.c
@@ -241,18 +241,16 @@ setup_entropy(isc_mem_t *mctx, const char *randomfile, isc_entropy_t **ectx) {
    ISC_LIST_INIT(sources);
  }

+#ifdef ISC_PLATFORM_CRYPTORANDOM
+ if (randomfile == NULL) {
+   isc_entropy_usehook(*ectx, true);
+ }
+#endif
if (randomfile != NULL && strcmp(randomfile, "keyboard") == 0) {
    usekeyboard = ISC_ENTROPY_KEYBOARDYES;
    randomfile = NULL;
  }

-#ifdef ISC_PLATFORM_CRYPTORANDOM
- if (randomfile != NULL &&
-   strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
-   randomfile = NULL;
-   isc_entropy_usehook(*ectx, true);
- }
-#endif
result = isc_entropy_usebestsource(*ectx, &source, randomfile,
    usekeyboard);

diff --git a/bin/named/client.c b/bin/named/client.c

```

```

index 4a50ad9..4d140e8 100644
--- a/bin/named/client.c
+++ b/bin/named/client.c
@@ -1768,7 +1768,8 @@ ns_client_adopt(ns_client_t *client, dns_message_t *message,

    isc_buffer_init(&buf,
    cookie, sizeof(cookie));
    isc_stdtime_get(&now);
-   isc_random_get(&nonce);
+   nonce = ((isc_rng_random(ns_g_server->rngctx) << 16) |
+   isc_rng_random(ns_g_server->rngctx));

    compute_cookie(client, now, nonce, ns_g_server->secret, &buf);

diff --git a/bin/named/config.c b/bin/named/config.c
index 9b343fa..5e663c6 100644
--- a/bin/named/config.c
+++ b/bin/named/config.c
@@ -98,7 +98,9 @@ options {\n\
# pid-file \"\" NS_LOCALSTATEDIR \"/run/named/named.pid\"; /* or /lwresd.pid */\n\
port 53;\n\
prefetch 2 9;\n\
-#ifdef PATH_RANDOMDEV
+#if defined(ISC_PLATFORM_CRYPTORANDOM)
+" random-device none;\n"
+#elif defined(PATH_RANDOMDEV)
" random-device \"\" PATH_RANDOMDEV \"\";\n"
#endif
" recursing-file \"named.recursing\";\n\
diff --git a/bin/named/controlconf.c b/bin/named/controlconf.c
index 9fdf49b..42128dc 100644
--- a/bin/named/controlconf.c
+++ b/bin/named/controlconf.c
@@ -327,9 +327,10 @@ log_invalid(isccc_ccmsg_t *ccmsg, isc_result_t result) {

static void
control_rcvmessage(isc_task_t *task, isc_event_t *event) {
- controlconnection_t *conn;
- controllistener_t *listener;
- controlkey_t *key;
+ controlconnection_t *conn = NULL;
+ controllistener_t *listener = NULL;
+ ns_server_t *server = NULL;
+ controlkey_t *key = NULL;
isccc_sexpr_t *request = NULL;
isccc_sexpr_t *response = NULL;
uint32_t algorithm;
@@ -340,16 +341,17 @@ control_rcvmessage(isc_task_t *task, isc_event_t *event) {

```

```

isc_buffer_t *text;
isc_result_t result;
isc_result_t erezult;
- isccc_sexpr_t *_ctrl;
+ isccc_sexpr_t *_ctrl = NULL;
isc_time_t sent;
isc_time_t exp;
uint32_t nonce;
- isccc_sexpr_t *data;
+ isccc_sexpr_t *data = NULL;

REQUIRE(event->ev_type == ISCCC_EVENT_CCMSG);

conn = event->ev_arg;
listener = conn->listener;
+ server = listener->controls->server;
algorithm = DST_ALG_UNKNOWN;
secret.rstart = NULL;
text = NULL;
@@ -462,8 +464,11 @@ control_recvmessage(isc_task_t *task, isc_event_t *event) {
 * Establish nonce.
 */
if (conn->nonce == 0) {
- while (conn->nonce == 0)
- isc_random_get(&conn->nonce);
+ while (conn->nonce == 0) {
+ uint16_t r1 = isc_rng_random(server->rngctx);
+ uint16_t r2 = isc_rng_random(server->rngctx);
+ conn->nonce = (r1 << 16) | r2;
+ }
  erezult = ISC_R_SUCCESS;
} else
  erezult = ns_control_docommand(request, listener->readonly, &text);
diff --git a/bin/named/include/named/server.h b/bin/named/include/named/server.h
index 4fd0194..0ba2627 100644
--- a/bin/named/include/named/server.h
+++ b/bin/named/include/named/server.h
@@ -20,6 +20,7 @@
#include <isc/log.h>
#include <isc/magic.h>
#include <isc/quota.h>
+#include <isc/random.h>
#include <isc/sockaddr.h>
#include <isc/types.h>
#include <isc/xml.h>
@@ -135,6 +136,7 @@ struct ns_server {
char * lockfile;

```

```

uint16_t transfer_tcp_message_size;
+ isc_rng_t * rngctx;
};

struct ns_altsecret {
diff --git a/bin/named/interfacemgr.c b/bin/named/interfacemgr.c
index 93aac31..e12fad9 100644
---
a/bin/named/interfacemgr.c
+++ b/bin/named/interfacemgr.c
@@ -17,6 +17,7 @@

#include <isc/interfaceiter.h>
#include <isc/os.h>
+#include <isc/random.h>
#include <isc/string.h>
#include <isc/task.h>
#include <isc/util.h>
diff --git a/bin/named/query.c b/bin/named/query.c
index 58b5914..edf42d2 100644
--- a/bin/named/query.c
+++ b/bin/named/query.c
@@ -20,6 +20,7 @@
#include <isc/mem.h>
#include <isc/platform.h>
#include <isc/print.h>
+#include <isc/random.h>
#include <isc/rwlock.h>
#include <isc/serial.h>
#include <isc/stats.h>
diff --git a/bin/named/server.c b/bin/named/server.c
index b2ae57c..cca7fe8 100644
--- a/bin/named/server.c
+++ b/bin/named/server.c
@@ -8279,21 +8279,32 @@ load_configuration(const char *filename, ns_server_t *server,
 * Open the source of entropy.
 */
if (first_time) {
+ const char *randomdev = NULL;
+ int level = ISC_LOG_ERROR;
+ obj = NULL;
+ result = ns_config_get(maps, "random-device", &obj);
- if (result != ISC_R_SUCCESS) {
+ if (result
== ISC_R_SUCCESS) {
+ if (!cfg_obj_isvoid(obj)) {
+ level = ISC_LOG_INFO;
+ randomdev = cfg_obj_asstring(obj);

```

```

+ }
+ }
+ if (randomdev == NULL) {
+ #ifdef ISC_PLATFORM_CRYPTORANDOM
+ isc_entropy_usehook(ns_g_entropy, true);
+ #else
+ if ((obj != NULL) && !cfg_obj_isvoid(obj))
+ level = ISC_LOG_INFO;
+   isc_log_write(ns_g_lctx, NS_LOGCATEGORY_GENERAL,
-   NS_LOGMODULE_SERVER, ISC_LOG_INFO,
+   NS_LOGMODULE_SERVER, level,
+     "no source of entropy found");
+ if ((obj == NULL) || cfg_obj_isvoid(obj)) {
+ CHECK(ISC_R_FAILURE);
+ }
+ #endif
+   } else {
-   const char *randomdev = cfg_obj_asstring(obj);
- #ifdef ISC_PLATFORM_CRYPTORANDOM
-   if (strcmp(randomdev, ISC_PLATFORM_CRYPTORANDOM) == 0)
-   isc_entropy_usehook(ns_g_entropy, true);
- #else
-   int level = ISC_LOG_ERROR;
+   result = isc_entropy_createfilesource(ns_g_entropy,
-   randomdev);
+   randomdev);
+ #ifdef PATH_RANDOMDEV
+   if
+ (ns_g_fallbackentropy != NULL) {
+   level = ISC_LOG_INFO;
@@ -8304,8 +8315,8 @@ load_configuration(const char *filename, ns_server_t *server,
+   NS_LOGCATEGORY_GENERAL,
+   NS_LOGMODULE_SERVER,
+   level,
-   "could not open entropy source "
-   "%s: %s",
+   "could not open "
+   "entropy source %s: %s",
+   randomdev,
+   isc_result_totext(result));
+ }
@@ -8325,7 +8336,6 @@ load_configuration(const char *filename, ns_server_t *server,
+ }
+   isc_entropy_detach(&ns_g_fallbackentropy);
+ }
- #endif
+ #endif
+ }

```

```

@@ -9097,6 +9107,7 @@ ns_server_create(isc_mem_t *mctx, ns_server_t **serverp) {
server->in_roothints = NULL;
server->blackholeacl = NULL;
server->keepresporder = NULL;
+ server->rngctx = NULL;

/* Must be first. */
CHECKFATAL(dst_lib_init2(ns_g_mctx, ns_g_entropy,
@@ -9123,6 +9134,9 @@ ns_server_create(isc_mem_t *mctx, ns_server_t **serverp) {
CHECKFATAL(dns_tkeyctx_create(ns_g_mctx,
ns_g_entropy,
&server->tkeyctx),
"creating TKEY context");
+ server->rngctx = NULL;
+ CHECKFATAL(isc_rng_create(ns_g_mctx, ns_g_entropy, &server->rngctx),
+ "creating random numbers context");

/*
* Setup the server task, which is responsible for coordinating
@@ -9329,7 +9343,8 @@ ns_server_destroy(ns_server_t **serverp) {

if (server->zonemgr != NULL)
dns_zonemgr_detach(&server->zonemgr);
-
+ if (server->rngctx != NULL)
+ isc_rng_detach(&server->rngctx);
if (server->tkeyctx != NULL)
dns_tkeyctx_destroy(&server->tkeyctx);

@@ -13366,10 +13381,10 @@ newzone_cfgctx_destroy(void **cfgp) {

static isc_result_t
generate_salt(unsigned char *salt, size_t saltlen) {
- int i, n;
+ size_t i, n;
union {
unsigned char rnd[256];
- uint32_t rnd32[64];
+ uint16_t rnd16[128];
} rnd;
unsigned char text[512 + 1];
isc_region_t r;
@@ -13379,9 +13394,10 @@ generate_salt(unsigned char *salt, size_t saltlen) {
if (saltlen > 256U)
return
(ISC_R_RANGE);

```

```

- n = (int) (saltlen + sizeof(uint32_t) - 1) / sizeof(uint32_t);
- for (i = 0; i < n; i++)
-   isc_random_get(&rnd.rnd32[i]);
+ n = (saltlen + sizeof(uint16_t) - 1) / sizeof(uint16_t);
+ for (i = 0; i < n; i++) {
+   rnd.rnd16[i] = isc_rng_random(ns_g_server->rngctx);
+ }

```

```

memmove(salt, rnd.rnd, saltlen);

```

```

diff --git a/bin/nsupdate/nsupdate.c b/bin/nsupdate/nsupdate.c

```

```

index 7f15cbc..458aa76 100644

```

```

--- a/bin/nsupdate/nsupdate.c

```

```

+++ b/bin/nsupdate/nsupdate.c

```

```

@@ -289,9 +289,7 @@ setup_entropy(isc_mem_t *mctx, const char *randomfile, isc_entropy_t **ectx) {
}

```

```

#ifdef ISC_PLATFORM_CRYPTORANDOM

```

```

- if (randomfile != NULL &&

```

```

-   strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {

```

```

-   randomfile = NULL;

```

```

+ if (randomfile == NULL) {

```

```

+   isc_entropy_usehook(*ectx, true);

```

```

+ }

```

```

#endif

```

```

diff --git a/bin/tests/system/pipelined/pipequeries.c b/bin/tests/system/pipelined/pipequeries.c

```

```

index 95b65bf..7a81d4e 100644

```

```

--- a/bin/tests/system/pipelined/pipequeries.c

```

```

+++ b/bin/tests/system/pipelined/pipequeries.c

```

```

@@

```

```

-280,9 +280,7 @@ main(int argc, char *argv[]) {

```

```

+   ectx = NULL;

```

```

+   RUNCHECK(isc_entropy_create(mctx, &ectx));

```

```

#ifdef ISC_PLATFORM_CRYPTORANDOM

```

```

- if (randomfile != NULL &&

```

```

-   strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {

```

```

-   randomfile = NULL;

```

```

+ if (randomfile == NULL) {

```

```

+   isc_entropy_usehook(ectx, true);

```

```

+ }

```

```

#endif

```

```

diff --git a/bin/tests/system/tkey/keycreate.c b/bin/tests/system/tkey/keycreate.c

```

```

index 3236968..4fa77b6 100644

```

```

--- a/bin/tests/system/tkey/keycreate.c

```

```

+++ b/bin/tests/system/tkey/keycreate.c

```

```

@@ -255,9 +255,7 @@ main(int argc, char *argv[]) {

```

```

+   ectx = NULL;

```

```

+   RUNCHECK(isc_entropy_create(mctx, &ectx));

```



```

#ifdef ISC_PLATFORM_CRYPTORANDOM
- if (randomfile != NULL &&
-   strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
- randomfile = NULL;
+ if (randomfile == NULL) {
  isc_entropy_usehook(ectx, true);
  }
#endif
diff --git a/bin/tests/system/tkey/keydelete.c b/bin/tests/system/tkey/keydelete.c
index 43fb6b0..105e151 100644
--- a/bin/tests/system/tkey/keydelete.c
+++
b/bin/tests/system/tkey/keydelete.c
@@ -171,6 +171,7 @@ main(int argc, char **argv) {
  randomfile = argv[2];
  argv += 2;
  argc -= 2;
+ POST(argc);
  }
  keyname = argv[1];

@@ -182,9 +183,7 @@ main(int argc, char **argv) {
  ectx = NULL;
  RUNCHECK(isc_entropy_create(mctx, &ectx));
#ifdef ISC_PLATFORM_CRYPTORANDOM
- if (randomfile != NULL &&
-   strcmp(randomfile, ISC_PLATFORM_CRYPTORANDOM) == 0) {
- randomfile = NULL;
+ if (randomfile == NULL) {
  isc_entropy_usehook(ectx, true);
  }
#endif
diff --git a/doc/arm/Bv9ARM-book.xml b/doc/arm/Bv9ARM-book.xml
index ca98726..1f9df2c 100644
--- a/doc/arm/Bv9ARM-book.xml
+++ b/doc/arm/Bv9ARM-book.xml
@@ -5034,22 +5034,45 @@ badresp:1,adberr:0,findfail:0,valfail:0]
  <term><command>random-device</command></term>
  <listitem>
  <para>
- This specifies a source of entropy to be used by the server. Entropy is
- primarily needed
- for DNSSEC operations, such as TKEY transactions
and dynamic
- update of signed
- zones. This option specifies the device (or file) from which
- to read
- entropy. If it is a file, operations requiring entropy will

```

- fail when the
- file has been exhausted. If `<command>random-device</command>` is not specified, the default value
- is
- `<filename>/dev/random</filename>`
- (or equivalent) when present, and none otherwise. The
- `<command>random-device</command>` option takes
- effect during
- the initial configuration load at server startup time and
- is ignored on subsequent reloads.
- + Specifies a source of entropy to be used by the server.
- + This is a device or file from which to read entropy.
- + If it is a file, operations requiring entropy
- + will fail when the file has been exhausted.
- + `</para>`
- + `<para>`
- + Entropy is needed for cryptographic operations such as
- + TKEY transactions, dynamic update of signed zones, and
- + generation of TSIG session keys. It is also used for
- + seeding and stirring the pseudo-random
- number generator,
- + which is used for less critical functions requiring
- + randomness such as generation of DNS message transaction
- + ID's.
- + `</para>`
- + `<para>`
- + If `<command>random-device</command>` is not specified, or
- + if it is set to `<literal>none</literal>`, entropy will be
- + read from the random number generation function supplied
- + by the cryptographic library with which BIND was linked
- + (i.e. OpenSSL or a PKCS#11 provider).
- + `</para>`
- + `<para>`
- + The `<command>random-device</command>` option takes
- + effect during the initial configuration load at server
- + startup time and is ignored on subsequent reloads.
- + `</para>`
- + `<para>`
- + If BIND is built with
- + `<command>configure --disable-crypto-rand</command>`, then
- + entropy is *not* sourced from the
- + cryptographic library. In this case, if
- + `<command>random-device</command>` is not specified, the
- + default value is the system random device,
- + `<filename>/dev/random</filename>`
- or the equivalent.
- + This default can be overridden with
- + `<command>configure --with-randomdev</command>`.
- + If no system random device exists, then no entropy source

```

+ will be configured, and <command>named</command> will only
+ be able to use pseudo-random numbers.
  </para>
</listitem>
</varlistentry>
diff --git a/doc/arm/notes-rh-changes.xml b/doc/arm/notes-rh-changes.xml
new file mode 100644
index 0000000..89a4961
--- /dev/null
+++ b/doc/arm/notes-rh-changes.xml
@@ -0,0 +1,42 @@
+<!--
+ - Copyright (C) Internet Systems Consortium, Inc. ("ISC")
+ -
+ - This Source Code Form is subject to the terms of the Mozilla Public
+ - License, v. 2.0. If a copy of the MPL was not distributed with this
+ - file, You can obtain one at http://mozilla.org/MPL/2.0/.
+ -
+ - See the COPYRIGHT file distributed with this work for additional
+ - information regarding copyright ownership.
+-->
+
+<section xml:id="relnotes_rh_changes"><info><title>Red Hat Specific Changes</title></info>
+
+  <itemizedlist>
+  <listitem>
+  <para>
+  By default, BIND now uses the random number generation functions
+  in the cryptographic library (i.e., OpenSSL or a PKCS#11
+  provider) as a source of high-quality randomness rather than
+  <filename>/dev/random</filename>. This is suitable for virtual
+  machine environments, which may have limited entropy pools and
+  lack hardware random number generators.
+  </para>
+  <para>
+  This can be overridden by specifying another entropy source via
+  the <command>random-device</command> option in
+  <filename>named.conf</filename>, or via the <command>-r</command>
+  command line option. However, for functions requiring full
+  cryptographic strength, such as DNSSEC key generation, this
+  <emphasis>cannot</emphasis> be overridden. In particular, the
+  <command>-r</command> command line option no longer has any
+  effect on
+  <command>dnssec-keygen</command>.
+  </para>
+  <para>
+  This can be disabled by building with
+  <command>configure --disable-crypto-rand</command>, in which

```

```

+   case <filename>/dev/random</filename> will be the default
+   entropy source. [RT #31459] [RT #46047]
+ </para>
+ </listitem>
+ </itemizedlist>
+</section>
+
diff --git a/doc/arm/notes.xml b/doc/arm/notes.xml
index a5e42c0..f8cb1f9 100644
--- a/doc/arm/notes.xml
+++ b/doc/arm/notes.xml
@@ -47,6 +47,7 @@
<xi:include xmlns:xi="http://www.w3.org/2001/XInclude" href="notes-9.11.1.xml"/>
<xi:include xmlns:xi="http://www.w3.org/2001/XInclude" href="notes-9.11.0.xml"/>

+ <xi:include xmlns:xi="http://www.w3.org/2001/XInclude" href="notes-rh-changes.xml"/>
<xi:include xmlns:xi="http://www.w3.org/2001/XInclude" href="notes-eol.xml"/>
<xi:include xmlns:xi="http://www.w3.org/2001/XInclude" href="notes-thankyou.xml"/>
</section>
diff --git a/lib/dns/dst_api.c b/lib/dns/dst_api.c
index
aa54afc..2156384 100644
--- a/lib/dns/dst_api.c
+++ b/lib/dns/dst_api.c
@@ -2017,10 +2017,12 @@ dst__entropy_getdata(void *buf, unsigned int len, bool pseudo) {
    else
        flags |= ISC_ENTROPY_BLOCKING;
#ifdef ISC_PLATFORM_CRYPTORANDOM
+ /* get entropy directly from crypto provider */
    return (dst_random_getdata(buf, len, NULL, flags));
#else
+ /* get entropy from entropy source or hook function */
    return (isc_entropy_getdata(dst_entropy_pool, buf, len, NULL, flags));
#endif
+##endif /* ISC_PLATFORM_CRYPTORANDOM */
##endif /* PKCS11CRYPTO */
}

diff --git a/lib/dns/include/dst/dst.h b/lib/dns/include/dst/dst.h
index 3aba028..180c841 100644
--- a/lib/dns/include/dst/dst.h
+++ b/lib/dns/include/dst/dst.h
@@ -163,8 +163,18 @@ isc_result_t
dst_random_getdata(void *data, unsigned int length,
    unsigned int *returned, unsigned int flags);
/*%<
- * \brief Return data from the crypto random generator.
- * Specialization of isc_entropy_getdata().

```

```

+ * Gets random data from the random
generator provided by the
+ * crypto library, if BIND was built with --enable-crypto-rand.
+ *
+ * See isc_entropy_getdata() for parameter usage. Normally when
+ * this function is available, it will be set up as a hook in the
+ * entropy context, so that isc_entropy_getdata() is a front-end to
+ * this function.
+ *
+ * Returns:
+ * \li ISC_R_SUCCESS on success
+ * \li ISC_R_NOTIMPLEMENTED if BIND is built with --disable-crypto-rand
+ * \li DST_R_OPENSSLFAILURE, DST_R_CRYPTOFailure, or other codes on error
*/

```

bool

```

diff --git a/lib/dns/openssl_link.c b/lib/dns/openssl_link.c
index 3f4f822..cfdc757 100644
--- a/lib/dns/openssl_link.c
+++ b/lib/dns/openssl_link.c
@@ -484,7 +484,8 @@ dst__openssl_getengine(const char *engine) {

```

isc_result_t

```

dst_random_getdata(void *data, unsigned int length,
- unsigned int *returned, unsigned int flags) {
+ unsigned int *returned, unsigned int flags)
+{
#ifdef ISC_PLATFORM_CRYPTORANDOM
#ifndef DONT_REQUIRE_DST_LIB_INIT
INSIST(dst__memory_pool
!= NULL);
diff --git a/lib/isc/include/isc/entropy.h b/lib/isc/include/isc/entropy.h
index f32c9dc..bed276b 100644
--- a/lib/isc/include/isc/entropy.h
+++ b/lib/isc/include/isc/entropy.h
@@ -189,9 +189,8 @@ isc_entropy_createcallbacksource(isc_entropy_t *ent,
/*!<
* \brief Create an entropy source that is polled via a callback.
*
- * This would
- * be used when keyboard input is used, or a GUI input method. It can
- * also be used to hook in any external entropy source.
+ * This would be used when keyboard input is used, or a GUI input method.
+ * It can also be used to hook in any external entropy source.
*
* Samples are added via isc_entropy_addcallbacksample(), below.
* _addcallbacksample() is the only function which may be called from
@@ -232,15 +231,32 @@ isc_result_t

```

```

isc_entropy_getdata(isc_entropy_t *ent, void *data, unsigned int length,
    unsigned int *returned, unsigned int flags);
/*!<
- * \brief Extract data from the entropy pool. This may load
the pool from various
- * sources.
+ * \brief Get random data from entropy pool 'ent'.
*
- * Do this by stirring the pool and returning a part of hash as randomness.
- * Note that no secrets are given away here since parts of the hash are
- * xored together before returned.
+ * If a hook has been set up using isc_entropy_sethook() and
+ * isc_entropy_usehook(), then the hook function will be called to get
+ * random data.
*
- * Honor the request from the caller to only return good data, any data,
- * etc.
+ * Otherwise, randomness is extracted from the entropy pool set up in BIND.
+ * This may cause the pool to be loaded from various sources. This is done
+ * by stirring the pool and returning a part of hash as randomness.
+ * (Note that no secrets are given away here since parts of the hash are
+ * XORed together before returning.)
+ *
+ * 'flags' may contain ISC_ENTROPY_GOODONLY, ISC_ENTROPY_PARTIAL, or
+ * ISC_ENTROPY_BLOCKING. These will be honored if the hook function is
+
* not in use. If it is, the flags will be passed to the hook function
+ * but it may ignore them.
+ *
+ * Up to 'length' bytes of randomness are retrieved and copied into 'data'.
+ * (If 'returned' is not NULL, and the number of bytes copied is less than
+ * 'length' - which may happen if ISC_ENTROPY_PARTIAL was used - then the
+ * number of bytes copied will be stored in *returned.)
+ *
+ * Returns:
+ * \li ISC_R_SUCCESS on success
+ * \li ISC_R_NOENTROPY if entropy pool is empty
+ * \li other error codes are possible when a hook is in use
*/

void
@@ -305,13 +321,21 @@ isc_entropy_usebestsource(isc_entropy_t *ectx, isc_entropysource_t **source,
void
isc_entropy_usehook(isc_entropy_t *ectx, bool onoff);
/*!<
- * \brief Mark/unmark the given entropy structure as being hooked.
+ * \brief Configure entropy context 'ectx' to use the hook function
+ *

```

```
+ * Sets the entropy context to call the hook function for random number
+ * generation, if such a function has been configured via
+
+ * isc_entropy_sethook(), whenever isc_entropy_getdata() is called.
+ */
```

```
void
```

```
isc_entropy_sethook(isc_entropy_getdata_t myhook);
```

```
/*!<
```

```
- * \brief Set the getdata hook (e.g., for a crypto random generator).
```

```
+ * \brief Set the hook function.
```

```
+ *
```

```
+ * The hook function is a global value: only one hook function
```

```
+ * can be set in the system. Individual entropy contexts may be
```

```
+ * configured to use it, or not, by calling isc_entropy_usehook().
```

```
*/
```

```
ISC_LANG_ENDDECLS
```

```
diff --git a/lib/isc/include/isc/random.h b/lib/isc/include/isc/random.h
```

```
index f38e80d..3cb1c56 100644
```

```
--- a/lib/isc/include/isc/random.h
```

```
+++ b/lib/isc/include/isc/random.h
```

```
@@ -19,13 +19,23 @@
```

```
#include <isc/mutex.h>
```

```
/*! \file isc/random.h
```

```
- * \brief Implements a random state pool which will let the caller return a
```

```
- * series of possibly non-reproducible random values.
```

```
+ * \brief Implements pseudo random number generators.
```

```
*
```

```
- * Note that the
```

```
- * strength of these numbers is not all that high, and should not be
```

```
- * used
```

```
in cryptography functions. It is useful for jittering values
```

```
- * a bit here and there, such as timeouts, etc.
```

```
+ * Two pseudo-random number generators are implemented, in isc_random_*
```

```
+ * and isc_rng_*. Neither one is very strong; they should not be used
```

```
+ * in cryptography functions.
```

```
+ *
```

```
+ * isc_random_* is based on arc4random if it is available on the system.
```

```
+ * Otherwise it is based on the posix srand() and rand() functions.
```

```
+ * It is useful for jittering values a bit here and there, such as
```

```
+ * timeouts, etc, but should not be relied upon to generate
```

```
+ * unpredictable sequences (for example, when choosing transaction IDs).
```

```
+ *
```

```
+ * isc_rng_* is based on ChaCha20, and is seeded and stirred from the
```

```
+ * system entropy source. It is stronger than isc_random_* and can
```

```
+ * be used for generating unpredictable sequences. It is still not as
```

```
+ * good as using system entropy directly (see entropy.h) and should not
+ * be used for cryptographic functions such as key generation.
*/
```

ISC_LANG_BEGINDECLS

@@

```
-113,8 +123,8 @@ isc_rng_random(isc_rng_t *rngctx);
```

uint16_t

```
isc_rng_uniformrandom(isc_rng_t *rngctx, uint16_t upper_bound);
```

```
/*%<
```

```
- * Returns a uniformly distributed pseudo random 16-bit unsigned
```

```
- * integer.
```

```
+ * Returns a uniformly distributed pseudo-random 16-bit unsigned integer
```

```
+ * less than 'upper_bound'.
```

```
*/
```

ISC_LANG_ENDDECLS

```
diff --git a/lib/isccfg/namedconf.c b/lib/isccfg/namedconf.c
```

```
index e74c93b..212194e 100644
```

```
--- a/lib/isccfg/namedconf.c
```

```
+++ b/lib/isccfg/namedconf.c
```

```
@@ -1109,7 +1109,7 @@ options_clauses[] = {
```

```
{ "pid-file", &cfg_type_qstringornone, 0 },
```

```
{ "port", &cfg_type_uint32, 0 },
```

```
{ "querylog", &cfg_type_boolean, 0 },
```

```
- { "random-device", &cfg_type_qstring, 0 },
```

```
+ { "random-device", &cfg_type_qstringornone, 0 },
```

```
{ "recurring-file", &cfg_type_qstring, 0 },
```

```
{ "recursive-clients", &cfg_type_uint32, 0 },
```

```
{ "reserved-sockets", &cfg_type_uint32, 0 },
```

```
--
```

2.26.2

Found in path(s):

```
* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/bind-9.11-rt46047.patch
```

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Found in path(s):

```
* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/zonetodb.1
```

```
* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/zone2sqlite.1
```

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

```
/*
```

```
* Copyright (C) 2004, 2005 Stig Venaas <venaas@uninett.no>
```


* \$Id: ldap2zone.c,v 1.1 2007/07/24 15:18:00 atkac Exp \$
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*/

Found in path(s):

* /opt/cola/permits/1701043592_1685703124.6755614/0/bind-zip/bind/SOURCES/ldap2zone.c

1.506 micronaut-inject-java 3.8.8

1.506.1 Available under license :

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<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

* /opt/cola/permits/1701043949_1685472426.070663/0/micronaut-inject-java-3-8-8-jar/META-INF/maven/io.micronaut/micronaut-inject-java/pom.xml

1.507 micronaut-jackson-databind 3.8.8

1.507.1 Available under license :

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

<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

* /opt/cola/permits/1701043735_1685472889.8611712/0/micronaut-jackson-databind-3-8-8-jar/META-INF/maven/io.micronaut/micronaut-jackson-databind/pom.xml

1.508 aws-java-sdk 1.12.223

1.508.1 Available under license :

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

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* and limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/GetSecretValueRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/RotateSecretRequest.java

*

/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/PutResourcePolicyRequest.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/ValidateResourcePolicyRequest.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/PutResourcePolicyResultJsonUnmarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/PutSecretValueRequestMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/GetResourcePolicyRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/ResourceNotFoundExceptionUnmarshaller.java

*

/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/ReplicationStatusTypeMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/AWSSecretsManagerAsyncClientBuilder.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/CreateSecretResultJsonUnmarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/ReplicateSecretToRegionsResultJsonUnmarshaller.java

va

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/UpdateSecretResultJsonUnmarshaller.java

*

/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/UpdateSecretVersionStageRequest.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/DescribeSecretRequestMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/DeleteSecretRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/RestoreSecretResult.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-

jar/com/amazonaws/services/secretsmanager/model/transform/PutSecretValueRequestProtocolMarshaller.java
*
/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/ListSecretsRequest.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/GetRandomPasswordResultJsonUnmarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ValidateResourcePolicyRequestMarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/AbstractAWSSecretsManager.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/MalformedPolicyDocumentExceptionUnmarshaller.java
ava
*
/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/DeleteResourcePolicyResult.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/ListSecretVersionIdsRequest.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/RotationRulesType.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/LimitExceededExceptionUnmarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/EncryptionFailureExceptionUnmarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretVersionIdsRequestMarshaller.java
*
/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/Filter.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/ValidationErrorsEntry.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/InvalidRequestExceptionUnmarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ValidateResourcePolicyResultJsonUnmarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/StopReplicationToReplicaRequestMarshaller.java
*
/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/StatusType.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/PreconditionNotMetException.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/UntagResourceRequestMarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/PutResourcePolicyRequestMarshaller.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/CreateSecretResult.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/CreateSecretRequestProtocolMarshaller.java

*

/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/RestoreSecretResultJsonUnmarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/GetRandomPasswordRequestMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/DeleteSecretResultJsonUnmarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/ReplicateSecretToRegionsRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/UpdateSecretRequest.java

*

/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/DescribeSecretRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/TagResourceRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/UntagResourceRequest.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/DeleteResourcePolicyRequest.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/SecretListEntryMarshaller.java

*

/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/GetRandomPasswordRequestProtocolMarshaller.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/UpdateSecretVersionStageResultJsonUnmarshaller.java

va

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/transform/RestoreSecretRequestProtocolMarshaller.java

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/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/ValidateResourcePolicyResult.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/LimitExceededException.java

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-jar/com/amazonaws/services/secretsmanager/model/InvalidParameterException.java

```
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/TagResourceResult.java
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/PublicPolicyExceptionUnmarshaller.java
*
/opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/DecryptionFailureException.java
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WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions
* and limitations under the License.
*/
/**
* <p>
* The unique identifier of the version of the secret to retrieve. If you include both this parameter and
* <code>VersionStage</code>, the two parameters must refer to the same secret version. If you don't specify
either
* a <code>VersionStage</code> or <code>VersionId</code>, then Secrets Manager returns the
<code>AWSCURRENT</code>
* version.
* </p>
* <p>
* This value is typically a <a href="https://wikipedia.org/wiki/Universally_unique_identifier">UUID-type</a>
value
* with 32 hexadecimal digits.
* </p>
*/
```

Found in path(s):

```
* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/GetSecretValueRequest.java
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permissions
* and limitations under the License.
*/
/**
 * <p>
 * The date and time that this version of the secret was created. If you don't specify which version in
 * <code>VersionId</code> or <code>VersionStage</code>, then Secrets Manager uses the
<code>AWSCURRENT</code>
 * version.
 * </p>
 */
/**
 * <p>
 * The date and time that this version of the secret was
created. If you don't specify which version in
 * <code>VersionId</code> or <code>VersionStage</code>, then Secrets Manager uses the
<code>AWSCURRENT</code>
 * version.
 * </p>
 *
 * @param createdDate
 * The date and time that this version of the secret was created. If you don't specify which version in
 * <code>VersionId</code> or <code>VersionStage</code>, then Secrets Manager uses the
<code>AWSCURRENT</code>
 * version.
 */

```

Found in path(s):

```

* /opt/cola/permits/1701043622_1685472911.3249674/0/aws-java-sdk-secretsmanager-1-12-223-sources-
jar/com/amazonaws/services/secretsmanager/model/GetSecretValueResult.java

```

1.509 micronaut-buffer-netty 3.8.8

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* /opt/cola/permits/1701043900_1685472831.2061136/0/micronaut-buffer-netty-3-8-8-sources-jar/io/micronaut/buffer/netty/DefaultByteBufAllocatorConfiguration.java
* /opt/cola/permits/1701043900_1685472831.2061136/0/micronaut-buffer-netty-3-8-8-sources-jar/io/micronaut/buffer/netty/ByteBufAllocatorConfiguration.java

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Found in path(s):

* /opt/cola/permits/1701043900_1685472831.2061136/0/micronaut-buffer-netty-3-8-8-sources-jar/io/micronaut/buffer/netty/NettyByteBuffer.java
* /opt/cola/permits/1701043900_1685472831.2061136/0/micronaut-buffer-netty-3-8-8-sources-jar/io/micronaut/buffer/netty/NettyByteBufferFactory.java
* /opt/cola/permits/1701043900_1685472831.2061136/0/micronaut-buffer-netty-3-8-8-sources-jar/io/micronaut/buffer/netty/package-info.java
*
/opt/cola/permits/1701043900_1685472831.2061136/0/micronaut-buffer-netty-3-8-8-sources-jar/io/micronaut/buffer/netty/NettyFeature.java

1.510 dropwizard-request-logging 2.1.2

1.510.1 Available under license :

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1.511 netty-tcnative 2.0.52.Final

1.511.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1701043722_1685706945.538572/0/netty-tcnative-2-0-52-final-jar/META-INF/maven/io.netty/netty-tcnative/pom.xml
```

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Manifest-Version: 1.0

Implementation-Title: Netty/TomcatNative [OpenSSL - Dynamic]

Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.

Automatic-Module-Name: io.netty.tcnative.openssl.osx-x86_64

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: io.netty.tcnative

Implementation-Version: 2.0.52.Final

Built-By: norman

Bnd-LastModified: 1651736380643

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project
Fragment-Host: io.netty.tcnative-classes
Tool: Bnd-5.1.1.202006162103
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Version: 2.0.52.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative/>

Found in path(s):

* /opt/cola/permits/1701043722_1685706945.538572/0/netty-tcnative-2-0-52-final-jar/META-INF/MANIFEST.MF

1.512 antlr 4.10

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1.513 jersey-media-json-jackson 2.37

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jar/io/micronaut/http/package-info.java
* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-
jar/io/micronaut/http/HTTPHeaderValues.java
* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-
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* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-
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/opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-jar/io/micronaut/http/cookie/SameSiteConverter.java

* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-jar/io/micronaut/http/bind/binders/HttpCoroutineContextFactory.kt

* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-jar/io/micronaut/http/PushCapableHttpRequest.java

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

This file maps Internet media types to unique file extension(s).

Although created for httpd, this file is used by many software systems

and has been placed in the public domain for unlimited redistribution.

```

#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1810121&view=co
#
# MIME type (lowercased) Extensions
# =====
# application/1d-interleaved-parityfec
#
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml

```

application/call-completion

application/cals-1840
application/cbor
application/ccmp+xml
application/ccxml+xml ccxml
application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmioq
application/cdni
application/cea
application/cea-2018+xml
application/cellml+xml
application/cfw
application/cms
application/cnrx+xml
application/coap-group+json
application/commonground
application/conference-info+xml
application/cpl+xml
application/csrattrs
application/csta+xml
application/cstadata+xml
application/csvm+json
application/cu-seeme cu
application/cybercash
application/dash+xml
application/dashdelta
application/davmount+xml davmount
application/dca-rft
application/dcd
application/dec-dx
application/dialog-info+xml
application/dicom
application/dii
application/dit
application/dns
application/docbook+xml dbk
application/dskpp+xml
application/dssc+der dssc
application/dssc+xml xdssc

application/dvcs
application/ecmascript ecma
application/edi-consent

application/edi-x12
application/edifact
application/efi
application/emergencycalldata.comment+xml
application/emergencycalldata.deviceinfo+xml
application/emergencycalldata.providerinfo+xml
application/emergencycalldata.serviceinfo+xml
application/emergencycalldata.subscriberinfo+xml
application/emma+xml emma
application/emotionml+xml
application/encaprtf
application/epp+xml
application/epub+zip epub
application/eshop
application/example
application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-tdpfr pfr
application/framework-attributes+xml
application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip
application/h224
application/held+xml
application/http
application/hyperstudio stk

application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
application/im-iscomposing+xml
application/index
application/index.cmd
application/index.obj
application/index.response
application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix
application/ipp
application/isup
application/its+xml

application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/javascript mjs
application/jose
application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json
application/jwt
application/kpml-request+xml
application/kpml-response+xml
application/ld+json
application/lgr+xml
application/link-format
application/load-control+xml
application/lost+xml lostxml

application/lostsync+xml
application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
application/macwriteii
application/mads+xml mads
application/marc mrc
application/marcxml+xml mrcx
application/mathematica ma nb mb
application/mathml+xml mathml
application/mathml-content+xml
application/mathml-presentation+xml
application/mbms-associated-procedure-description+xml
application/mbms-deregister+xml
application/mbms-envelope+xml
application/mbms-msk+xml
application/mbms-msk-response+xml
application/mbms-protection-description+xml
application/mbms-reception-report+xml
application/mbms-register+xml
application/mbms-register-response+xml
application/mbms-schedule+xml
application/mbms-user-service-description+xml
application/mbox mbox
application/media-policy-dataset+xml

```
# application/media_control+xml
application/mediaservercontrol+xml mscml
# application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
#
application/mf4
# application/mikey
application/mods+xml mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
# application/odx
application/obps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc
onetoc2 onetmp onepkg
application/oxps oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf
# application/pdx
application/pgp-encrypted pgp
```

application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
application/pidf+xml
application/pidf-diff+xml
application/pkcs10 p10
application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath
application/pkixcmp pki
application/pls+xml pls
application/poc-settings+xml
application/postscript ai eps ps
application/ppsp-tracker+json
application/problem+json
application/problem+xml
application/provenance+xml
application/prs.alvestrand.titrax-sheet
application/prs.cww cww
application/prs.hpub+zip
application/prs.nprend
application/prs.plucker

application/prs.rdf+xml-crypt
application/prs.xsf+xml
application/pskc+xml pskcxml
application/qsig
application/raptorfec
application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
application/remote-printing
application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
application/rfc+xml
application/riscos
application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
application/rpki-manifest mft
application/rpki-roa roa

```
# application/rpki-updown
application/rsd+xml  rsd
application/rss+xml  rss
application/rtf      rtf
# application/rtploopback
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml  sbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-request  scq
application/scvp-cv-response  scs
application/scvp-vp-request  spq
application/scvp-vp-response  spp
application/sdp    sdp
#
  application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation  setpay
# application/set-registration
application/set-registration-initiation  setreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml  shf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml  smi smil
# application/smpite336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query  rq
application/sparql-results+xml  srx
# application/spirits-event+xml
# application/sql
application/srgs  gram
application/srgs+xml  grxml
application/sru+xml  sru
application/ssdl+xml  ssdl
application/ssml+xml  ssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
```


application/tamp-community-update
application/tamp-community-update-confirm

application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
application/timestamp-query
application/timestamp-reply
application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml
application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
application/vcard+json
application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb

application/vnd.3gpp.sms
application/vnd.3gpp.sms+xml
application/vnd.3gpp.srvcc-ext+xml
application/vnd.3gpp.srvcc-info+xml
application/vnd.3gpp.state-and-event-info+xml
application/vnd.3gpp.ussd+xml
application/vnd.3gpp2.bcsmcinfo+xml
application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap tcap
application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes pwn
application/vnd.accpac.simply.aso aso
application/vnd.accpac.simply.imp imp

application/vnd.acucobol acu
application/vnd.acucorp atc acute
application/vnd.adobe.air-application-installer-package+zip air
application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt fcdt
application/vnd.adobe.fxp fxp fxpl
application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
application/vnd.aether.imp
application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs
application/vnd.amazon.ebook azw

application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc acc
application/vnd.amiga.ami ami
application/vnd.amundsen.maze+xml
application/vnd.android.package-archive apk
application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
application/vnd.apache.thrift.binary
application/vnd.apache.thrift.compact
application/vnd.apache.thrift.json
application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
application/vnd.autopackage
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr
application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm

application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep

```
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
# application/vnd.cendio.thinlinc.clientconf
# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
# application/vnd.comicbook+zip
#
application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmsg
# application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd ppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
# application/vnd.debian.binary-package
```

application/vnd.dece.data uvf uvvf uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unspecified uvx
uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
application/vnd.desmume.movie
application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dm.delegation+xml
application/vnd.dna dna
application/vnd.document+json
application/vnd.dolby.mlp mlp
application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.2
application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
application/vnd.drive+json
application/vnd.ds-keypoint kpxx
application/vnd.dtg.local
application/vnd.dtg.local.flash
application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer
application/vnd.dvb.ipdcdftnotifaccess
application/vnd.dvb.ipdcesgaccess
application/vnd.dvb.ipdcesgaccess2
application/vnd.dvb.ipdcesgpdd
application/vnd.dvb.ipdcroaming
application/vnd.dvb.iptv.alfec-base
application/vnd.dvb.iptv.alfec-enhancement

application/vnd.dvb.notif-aggregate-root+xml
application/vnd.dvb.notif-container+xml
application/vnd.dvb.notif-generic+xml
application/vnd.dvb.notif-ia-msglist+xml
application/vnd.dvb.notif-ia-registration-request+xml
application/vnd.dvb.notif-ia-registration-response+xml
application/vnd.dvb.notif-init+xml
application/vnd.dvb.pfr
application/vnd.dvb.service svc
application/vnd.dxr
application/vnd.dynageo geo
application/vnd.dzr
application/vnd.easykaraoke.cdgdownload
application/vnd.ecdis-update
application/vnd.ecowin.chart mag

```
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
#
application/vnd.ericsson.quickcall
application/vnd.esigno3+xml es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
# application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
#
application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
```

application/vnd.ffsns
application/vnd.filmit.zfc
application/vnd.fints
application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
application/vnd.fujixerox.art-ex
application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd
application/vnd.fujixerox.docuworks.container

application/vnd.fujixerox.hbpl
application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
application/vnd.geo+json
application/vnd.geocube+xml
application/vnd.geogebra.file ggb
application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
application/vnd.gerber
application/vnd.globalplatform.card-content-mgt
application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx gmx
application/vnd.google-earth.kml+xml kml
application/vnd.google-earth.kmz kmz
application/vnd.gov.sk.e-form+xml
application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqf gqs
application/vnd.gridmp
application/vnd.groove-account gac
application/vnd.groove-help ghf

application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg

application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbci
application/vnd.hcl-bireports
application/vnd.hdt
application/vnd.heroku+json
application/vnd.hhe.lesson-player les
application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlyt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
application/vnd.httphone
application/vnd.hydrostatix.sof-data sfd-hdstx
application/vnd.hyperdrive+json
application/vnd.hzn-3d-crossword
application/vnd.ibm.afplinedata
application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.ibm.secure-container sc
application/vnd.iccprofile icc icm

application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
application/vnd.ims.imsccv1p1
application/vnd.ims.imsccv1p2
application/vnd.ims.imsccv1p3
application/vnd.ims.lis.v2.result+json
application/vnd.ims.lti.v2.toolconsumerprofile+json
application/vnd.ims.lti.v2.toolproxy+json
application/vnd.ims.lti.v2.toolproxy.id+json
application/vnd.ims.lti.v2.toolsettings+json
application/vnd.ims.lti.v2.toolsettings.simple+json
application/vnd.informedcontrol.rms+xml
application/vnd.informix-visionary
application/vnd.infotech.project

```
# application/vnd.infotech.project+xml
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm igm
application/vnd.intercon.formnet xpw xpx
application/vnd.intergeo i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo qbo
application/vnd.intu.qfx qfx
# application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
#
application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmesssage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile rcprofile
application/vnd.irepository.package+xml irp
application/vnd.is-xpr xpr
application/vnd.isac.fcs fcs
application/vnd.jam jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms rms
application/vnd.jisp jisp
application/vnd.joost.joda-archive joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz ktz ktr
application/vnd.kde.karbon karbon
application/vnd.kde.kchart chrt
application/vnd.kde.kformula kfo
application/vnd.kde.kivio flw
application/vnd.kde.kontour kon
application/vnd.kde.kpresenter kpr
kpt
application/vnd.kde.kspread ksp
application/vnd.kde.kword kwd kwt
application/vnd.kenameaapp htke
application/vnd.kidspiration kia
application/vnd.kinar kne knp
application/vnd.koan skp skd skt skm
```


application/vnd.kodak-descriptor sse
application/vnd.las.las+xml lasxml
application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3 123
application/vnd.lotus-approach apr
application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
application/vnd.lotus-organizer org
application/vnd.lotus-screencam scm
application/vnd.lotus-wordpro lwp
application/vnd.macports.portpkg portpkg
application/vnd.mapbox-vector-tile
application/vnd.marlin.drm.actiontoken+xml
application/vnd.marlin.drm.conftoken+xml

application/vnd.marlin.drm.license+xml
application/vnd.marlin.drm.mdcf
application/vnd.mason+json
application/vnd.maxmind.maxmind-db
application/vnd.mcd mcd
application/vnd.medcalldata mc1
application/vnd.mediastation.cdkey cdkey
application/vnd.meridian-slideshow
application/vnd.mfer mwf
application/vnd.mfmp mfm
application/vnd.micro+json
application/vnd.micrografx.flo flo
application/vnd.micrografx.igx igx
application/vnd.microsoft.portable-executable
application/vnd.miele+json
application/vnd.mif mif
application/vnd.minisoft-hp3000-save
application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf daf
application/vnd.mobius.dis dis
application/vnd.mobius.mbk mbk
application/vnd.mobius.mqy mqy
application/vnd.mobius.msl msl
application/vnd.mobius.plc plc
application/vnd.mobius.txf txf
application/vnd.mophun.application mpn
application/vnd.mophun.certificate mpc
application/vnd.motorola.flexsuite

application/vnd.motorola.flexsuite.adsi
application/vnd.motorola.flexsuite.fis

```
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12 xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12 xlsx
application/vnd.ms-excel.template.macroenabled.12 xltm
application/vnd.ms-fontobject eot
application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme thmx
# application/vnd.ms-opentype
#
application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat cat
application/vnd.ms-pki.stl stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12 ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12 sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12 ppsm
application/vnd.ms-powerpoint.template.macroenabled.12 potm
# application/vnd.ms-printdevicecapabilities+xml
# application/vnd.ms-printing.printticket+xml
# application/vnd.ms-printschematicket+xml
application/vnd.ms-project mpp mpt
# application/vnd.ms-tnef
# application/vnd.ms-windows.devicepairing
# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
# application/vnd.ms-wmdrm.meter-chlg-req
#
```

application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
application/vnd.msa-disk-image
application/vnd.mseq mseq
application/vnd.msign
application/vnd.multiad.creator
application/vnd.multiad.creator.cif
application/vnd.music-niff
application/vnd.musician mus
application/vnd.muvee.style msty
application/vnd.mynfc taglet
application/vnd.ncd.control
application/vnd.ncd.reference
application/vnd.nervana
application/vnd.netfpx
application/vnd.neurolanguage.nlu nlu
application/vnd.nintendo.nitro.rom
application/vnd.nintendo.snes.rom
application/vnd.nitf ntf nitf
application/vnd.noblenet-directory nnd
application/vnd.noblenet-sealer nns
application/vnd.noblenet-web nnw
application/vnd.nokia.catalogs
application/vnd.nokia.conml+wxml
application/vnd.nokia.conml+xml

application/vnd.nokia.iptv.config+xml
application/vnd.nokia.isds-radio-presets
application/vnd.nokia.landmark+wxml
application/vnd.nokia.landmark+xml
application/vnd.nokia.landmarkcollection+xml
application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
application/vnd.nokia.ncd
application/vnd.nokia.pcd+wxml
application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-preset rpst
application/vnd.nokia.radio-presets rpss
application/vnd.novadigm.edm edm
application/vnd.novadigm.edx edx
application/vnd.novadigm.ext ext
application/vnd.ntt-local.content-share
application/vnd.ntt-local.file-transfer

```
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database odb
application/vnd.oasis.opendocument.formula odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet ods
application/vnd.oasis.opendocument.spreadsheet-template ots
application/vnd.oasis.opendocument.text odt
application/vnd.oasis.opendocument.text-master odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web oth
#
application/vnd.obn
# application/vnd.oftn.110n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
# application/vnd.oipf.dae.xhtml+xml
#
application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
```

```
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
# application/vnd.oma.cab-feature-handler+xml
#
  application/vnd.oma.cab-pcc+xml
# application/vnd.oma.cab-sub-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.oma.dd2+xml dd2
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
# application/vnd.oma.lwm2m+tlv
# application/vnd.oma.pal+xml
# application/vnd.oma.poc.detailed-progress-report+xml
# application/vnd.oma.poc.final-report+xml
# application/vnd.oma.poc.groups+xml
# application/vnd.oma.poc.invocation-descriptor+xml
# application/vnd.oma.poc.optimized-progress-report+xml
# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
# application/vnd.omads-email+xml
# application/vnd.omads-file+xml
# application/vnd.omads-folder+xml
# application/vnd.omaloc-supl-init
# application/vnd.onepager
# application/vnd.openblox.game+xml
# application/vnd.openblox.game-binary
# application/vnd.openeye.oeb
application/vnd.openofficeorg.extension oxt
#
  application/vnd.openxmlformats-officedocument.custom-properties+xml
# application/vnd.openxmlformats-officedocument.customxmlproperties+xml
# application/vnd.openxmlformats-officedocument.drawing+xml
# application/vnd.openxmlformats-officedocument.drawingml.chart+xml
# application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramcolors+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramstyle+xml
# application/vnd.openxmlformats-officedocument.extended-properties+xml
# application/vnd.openxmlformats-officedocument.presentationml.commentauthors+xml
# application/vnd.openxmlformats-officedocument.presentationml.comments+xml
```

```
# application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
#
application/vnd.openxmlformats-officedocument.presentationml.notesmaster+xml
# application/vnd.openxmlformats-officedocument.presentationml.noteslide+xml
application/vnd.openxmlformats-officedocument.presentationml.presentation pptx
# application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slide sldx
# application/vnd.openxmlformats-officedocument.presentationml.slide+xml
# application/vnd.openxmlformats-officedocument.presentationml.slidelayout+xml
# application/vnd.openxmlformats-officedocument.presentationml.slidemaster+xml
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# application/vnd.openxmlformats-officedocument.presentationml.slideshow.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml
# application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
#
application/vnd.openxmlformats-officedocument.presentationml.tags+xml
application/vnd.openxmlformats-officedocument.presentationml.template potx
# application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.calcchain+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.dialogsheet+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.externallink+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcachedefinition+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcacherecords+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivottable+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.querytable+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.revisionheaders+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.revisionlog+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sharedstrings+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet xlsx
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.main+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.table+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.tablesinglecells+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx
# application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
#
application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml
# application/vnd.openxmlformats-officedocument.theme+xml
# application/vnd.openxmlformats-officedocument.themeoverride+xml
```

application/vnd.openxmlformats-officedocument.vmldrawing
application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
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application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
application/vnd.openxmlformats-package.core-properties+xml
application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
application/vnd.openxmlformats-package.relationships+xml
application/vnd.oracle.resource+json
application/vnd.orange.indata
application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package mgp
application/vnd.osgi.bundle
application/vnd.osgi.dp dp
application/vnd.osgi.subsystem esa
application/vnd.otp.ct-kip+xml
application/vnd.oxli.countgraph

application/vnd.pagerduty+json
application/vnd.palm pdb pqa oprc
application/vnd.panoply
application/vnd.paos.xml
application/vnd.pawaafire paw
application/vnd.pcos
application/vnd.pg.format str
application/vnd.pg.osasli ei6
application/vnd.piaccess.application-licence
application/vnd.picsel efif
application/vnd.pmi.widget wg
application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn plf
application/vnd.powerbuilder6 pbd
application/vnd.powerbuilder6-s
application/vnd.powerbuilder7
application/vnd.powerbuilder7-s
application/vnd.powerbuilder75
application/vnd.powerbuilder75-s

```
# application/vnd.preminet
application/vnd.previewsystems.box box
application/vnd.proteus.magazine mgz
application/vnd.publishare-delta-tree qps
application/vnd.pvi.ptid1 ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xml-print+xml
# application/vnd.qualcomm.brew-app-res
# application/vnd.quarantainenet
application/vnd.quark.quarkxpress qxd
qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
# application/vnd.radisys.msml-conf+xml
# application/vnd.radisys.msml-dialog+xml
# application/vnd.radisys.msml-dialog-base+xml
# application/vnd.radisys.msml-dialog-fax-detect+xml
# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed bed
application/vnd.recordare.musicxml mxl
application/vnd.recordare.musicxml+xml musicxml
# application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote cryptonote
application/vnd.rim.cod cod
application/vnd.rn-realmedia rm
application/vnd.rn-realmedia-vbr rmvb
application/vnd.route66.link66+xml link66
#
application/vnd.rs-274x
# application/vnd.ruckus.download
# application/vnd.s3sms
application/vnd.sailingtracker.track st
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
```


application/vnd.sealed.csf
application/vnd.sealed.doc
application/vnd.sealed.eml
application/vnd.sealed.mht
application/vnd.sealed.net
application/vnd.sealed.ppt
application/vnd.sealed.tiff
application/vnd.sealed.xls
application/vnd.sealedmedia.softseal.html
application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail see
application/vnd.sema sema
application/vnd.semd semd
application/vnd.semf semf
application/vnd.shana.informed.formdata ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package ipk
application/vnd.simtech-mindmapper twd
twds
application/vnd.siren+json
application/vnd.smaf mmf
application/vnd.smart.notebook
application/vnd.smart.teacher teacher
application/vnd.software602.filler.form+xml
application/vnd.software602.filler.form-xml-zip
application/vnd.solent.sdkm+xml sdkm sdkd
application/vnd.spotfire.dxp dxp
application/vnd.spotfire.sfs sfs
application/vnd.sss-cod
application/vnd.sss-dtf
application/vnd.sss-ntf
application/vnd.stardivision.calc sdc
application/vnd.stardivision.draw sda
application/vnd.stardivision.impress sdd
application/vnd.stardivision.math smf
application/vnd.stardivision.writer sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package smzip
application/vnd.stepmania.stepchart sm
application/vnd.street-stream
application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc sxc
application/vnd.sun.xml.calc.template stc
application/vnd.sun.xml.draw sxd
application/vnd.sun.xml.draw.template std
application/vnd.sun.xml.impress sxi
application/vnd.sun.xml.impress.template sti

application/vnd.sun.xml.math sxm
application/vnd.sun.xml.writer sxw
application/vnd.sun.xml.writer.global sxcg
application/vnd.sun.xml.writer.template stw
application/vnd.sus-calendar sus
susp
application/vnd.svd svd
application/vnd.swiftview-ics
application/vnd.symbian.install sis six
application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
application/vnd.syncml.dm.notification
application/vnd.syncml.dmddf+wbxml
application/vnd.syncml.dmddf+xml
application/vnd.syncml.dmtnds+wbxml
application/vnd.syncml.dmtnds+xml
application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
application/vnd.tmd.mediaflex.api+xml
application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra

application/vnd.truedoc
application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
application/vnd.uplanet.alert
application/vnd.uplanet.alert-wbxml
application/vnd.uplanet.bearer-choice
application/vnd.uplanet.bearer-choice-wbxml
application/vnd.uplanet.cacheop
application/vnd.uplanet.cacheop-wbxml
application/vnd.uplanet.channel
application/vnd.uplanet.channel-wbxml
application/vnd.uplanet.list
application/vnd.uplanet.list-wbxml
application/vnd.uplanet.listcmd
application/vnd.uplanet.listcmd-wbxml
application/vnd.uplanet.signal
application/vnd.uri-map

application/vnd.valve.source.material
application/vnd.vcx vcx
application/vnd.vd-study
application/vnd.vectorworks
application/vnd.vel+json
application/vnd.verimatrix.vcas
application/vnd.vidsoft.vidconference
application/vnd.visio vsd
vst vss vsw
application/vnd.visionary vis
application/vnd.vividence.scriptfile
application/vnd.vsf vsf
application/vnd.wap.sic
application/vnd.wap.slc
application/vnd.wap.wbxml wbxml
application/vnd.wap.wmlc wmlc
application/vnd.wap.wmlscriptc wmlsc
application/vnd.webturbo wtb
application/vnd.wfa.p2p
application/vnd.wfa.wsc
application/vnd.windows.devicepairing
application/vnd.wmc
application/vnd.wmf.bootstrap
application/vnd.wolfram.mathematica
application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player nbp
application/vnd.wordperfect wpd
application/vnd.wqd wqd
application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf stf
application/vnd.wv.csp+wbxml
application/vnd.wv.csp+xml
application/vnd.wv.ssp+xml
application/vnd.xacml+json
application/vnd.xara xar
application/vnd.xfdl xfdl
application/vnd.xfdl.webform
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application/vnd.xmpie.dpkg
application/vnd.xmpie.plan
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application/vnd.xmpie.xlim
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application/vnd.yamaha.hv-script hvs
application/vnd.yamaha.hv-voice hvp
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application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio saf
application/vnd.yamaha.smaf-phrase spf
application/vnd.yamaha.through-ngn
application/vnd.yamaha.tunnel-udpencap
application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp
application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
application/vq-rtcpvr
application/watcherinfo+xml
application/whoispp-query
application/whoispp-response
application/widget wgt
application/winhelp hlp
application/wita
application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace

application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc
application/x-director dir dcr dxr cst cct cxt w3d fgd swa
application/x-doom wad

application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb
application/x-dtbresource+xml res
application/x-dvi dvi
application/x-envoy evy
application/x-eva eva
application/x-font-bdf bdf

application/x-font-dos
application/x-font-framemaker
application/x-font-ghostscript gsf
application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-pcf pcf
application/x-font-snf snf
application/x-font-speedo
application/x-font-sunos-news
application/x-font-type1 pfa pfb pfm afm
application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe
dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz

application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterial trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh
application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3
application/x-tads gam
application/x-tar tar
application/x-tcl tcl
application/x-tex tex
application/x-tex-tfm tfm
application/x-texinfo texinfo
texi
application/x-tgif obj
application/x-ustar ustar
application/x-wais-source src
application/x-www-form-urlencoded
application/x-x509-ca-cert der crt
application/x-xfig fig
application/x-xliff+xml xlf
application/x-xpinstall xpi
application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
application/xcap-att+xml
application/xcap-caps+xml
application/xcap-diff+xml xdf
application/xcap-el+xml
application/xcap-error+xml

```
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
application/xenc+xml  xenc
application/xhtml+xml  xhtml xht
# application/xhtml-voice+xml
application/xml  xml xsl
application/xml-dtd  dtd
#
  application/xml-external-parsed-entity
# application/xml-patch+xml
# application/xmpp+xml
application/xop+xml  xop
application/xproc+xml  xpl
application/xslt+xml  xslt
application/xspf+xml  xspf
application/xv+xml  mxml xhvm xvm xvm
application/yang  yang
application/yin+xml  yin
application/zip  zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm  adp
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic  au snd
# audio/bv16
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dv
# audio/dvi4
```

audio/eac3
audio/encaprtsp
audio/evrc
audio/evrc-qcp
audio/evrc0
audio/evrc1
audio/evrcb
audio/evrcb0
audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0

 audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221
audio/g723
audio/g726-16
audio/g726-24
audio/g726-32
audio/g726-40
audio/g728
audio/g729
audio/g7291
audio/g729d
audio/g729e
audio/gsm
audio/gsm-efr
audio/gsm-hr-08
audio/ilbc
audio/ip-mr_v2.5
audio/isac
audio/l16
audio/l20
audio/l24
audio/l8
audio/lpc
audio/midi mid midi kar rmi
audio/mobile-xmf
audio/mp4 m4a mp4a
audio/mp4a-latm

audio/mpa
audio/mpa-robust
audio/mpeg mpga mp2 mp2a mp3 m2a m3a
audio/mpeg4-generic
audio/musepack
audio/ogg oga ogg spx
audio/opus
audio/parityfec
audio/pcma
audio/pcma-wb
audio/pcmu
audio/pcmu-wb
audio/prs.sid
audio/qcelp
audio/raptorfec
audio/red
audio/rtp-enc-aescm128
audio/rtp-midi
audio/rtploopback
audio/rtx
audio/s3m s3m
audio/silk sil
audio/smv
audio/smv-qcp
audio/smv0
audio/sp-midi
audio/speex
audio/t140c
audio/t38

audio/telephone-event
audio/tone
audio/uemclip
audio/ulpfec
audio/vdvi
audio/vmr-wb
audio/vnd.3gpp.iufp
audio/vnd.4sb
audio/vnd.audiokoz
audio/vnd.celp
audio/vnd.cisco.nse
audio/vnd.cmles.radio-events
audio/vnd.cns.anp1
audio/vnd.cns.infl
audio/vnd.dece.audio uva uvva
audio/vnd.digital-winds eol
audio/vnd.dlna.adts
audio/vnd.dolby.heaac.1

audio/vnd.dolby.heaac.2
audio/vnd.dolby.mlp
audio/vnd.dolby.mps
audio/vnd.dolby.pl2
audio/vnd.dolby.pl2x
audio/vnd.dolby.pl2z
audio/vnd.dolby.pulse.1
audio/vnd.dra dra
audio/vnd.dts dts
audio/vnd.dts.hd dtshd
audio/vnd.dvb.file
audio/vnd.everad.plj
audio/vnd.hns.audio
audio/vnd.lucent.voice lvp
audio/vnd.ms-playready.media.pya pya
audio/vnd.nokia.mobile-xmf
audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800 ecelp4800
audio/vnd.nuera.ecelp7470 ecelp7470
audio/vnd.nuera.ecelp9600 ecelp9600
audio/vnd.octel.sbc
audio/vnd.qcelp
audio/vnd.rhetorex.32kadpcm
audio/vnd.rip rip

audio/vnd.sealedmedia.softseal.mpeg
audio/vnd.vmx.cvsd
audio/vorbis
audio/vorbis-config
audio/webm weba
audio/x-aac aac
audio/x-aiff aif aiff aifc
audio/x-caf caf
audio/x-flac flac
audio/x-matroska mka
audio/x-mpegurl m3u
audio/x-ms-wax wax
audio/x-ms-wma wma
audio/x-pn-realaudio ram ra
audio/x-pn-realaudio-plugin rmp
audio/x-tta
audio/x-wav wav
audio/xm xm
chemical/x-cdx cdx
chemical/x-cif cif
chemical/x-cmdf cmdf
chemical/x-cml cml
chemical/x-csml csml

```
# chemical/x-pdb
chemical/x-xyz xyz
font/collection ttc
font/otf otf
# font/sfnt
font/ttf ttf
font/woff woff
font/woff2 woff2
image/bmp bmp
image/cgm cgm
# image/dicom-rle
# image/emf
# image/example
# image/fits
image/g3fax g3
image/gif gif
image/ief ief
# image/jls
# image/jp2
image/jpeg jpeg jpg jpe
# image/jpm
# image/jpx
image/ktx ktx
# image/naplps
image/png png
image/prs.btif btif
# image/prs.pti
#
image/pwg-raster
image/sgi sgi
image/svg+xml svg svgz
# image/t38
image/tiff tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic uvi uvvi uvg uvvg
image/vnd.djvu djvu djv
image/vnd.dvb.subtitle sub
image/vnd.dwg dwg
image/vnd.dxf dxf
image/vnd.fastbidsheet fbs
image/vnd.fpx fpx
image/vnd.fst fst
image/vnd.fujixerox.edmics-mmr mmr
image/vnd.fujixerox.edmics-rlc rlc
# image/vnd.globalgraphics.pgb
```

```
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi mdi
image/vnd.ms-photo wdp
image/vnd.net-fpx npx
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp wbmp
image/vnd.xiff xif
# image/vnd.zbrush.pcx
image/webp webp
# image/wmf
image/x-3ds 3ds
image/x-cmu-raster ras
image/x-cmx cmx
image/x-freehand fh
fhc fh4 fh5 fh7
image/x-icon ico
image/x-mrsid-image sid
image/x-pcx pcx
image/x-pict pic pct
image/x-portable-anymap pnm
image/x-portable-bitmap pbm
image/x-portable-graymap pgm
image/x-portable-pixmap ppm
image/x-rgb rgb
image/x-tga tga
image/x-xbitmap xbm
image/x-xpixmap xpm
image/x-xwindowdump xwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
```

```
# message/news
# message/partial
message/rfc822  eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges  igs iges
model/mesh  msh mesh silo
model/vnd.collada+xml  dae
model/vnd.dwf  dwf
#
  model/vnd.flatland.3dml
model/vnd.gdl  gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtw  gtw
# model/vnd.moml+xml
model/vnd.mts  mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu  vtu
model/vrml  wrl vrml
model/x3d+binary  x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml  x3dv x3dvz
model/x3d+xml  x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
```

multipart/voice-message
multipart/x-mixed-replace
text/1d-interleaved-parityfec
text/cache-manifest appcache
text/calendar ics ifb
text/css css
text/csv csv
text/csv-schema

text/directory
text/dns
text/ecmascript
text/encaprtpt
text/enriched
text/example
text/fwdred
text/grammar-ref-list
text/html html htm
text/javascript
text/jcr-cnd
text/markdown
text/mizar
text/n3 n3
text/parameters
text/parityfec
text/plain txt text conf def list log in
text/provenance-notation
text/prs.fallenstein.rst
text/prs.lines.tag dsc
text/prs.prop.logic
text/raptorfec
text/red
text/rfc822-headers
text/richtext rtx
text/rtf
text/rtp-enc-aescm128
text/rtploopback
text/rtx
text/sgml sgml sgm
text/t140
text/tab-separated-values tsv
text/troff t tr roff man me ms
text/turtle ttl
text/ulpfec
text/uri-list uri uris urls
text/vcard vcard
text/vnd.a
text/vnd.abc

text/vnd.curl curl
text/vnd.curl.dcurl dcurl
text/vnd.curl.mcurl mcurl
text/vnd.curl.scurl scurl
text/vnd.debian.copyright
text/vnd.dmclientscript
text/vnd.dvb.subtitle sub
text/vnd.esmertec.theme-descriptor
text/vnd.fly fly
text/vnd.fmi.flexstor flx
text/vnd.graphviz gv
text/vnd.in3d.3dml 3dml
text/vnd.in3d.spot spot

text/vnd.iptc.newsml
text/vnd.iptc.nitf
text/vnd.latex-z
text/vnd.motorola.reflex
text/vnd.ms-mediapackage
text/vnd.net2phone.commcenter.command
text/vnd.radisys.msml-basic-layout
text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor jad
text/vnd.trolltech.linguist
text/vnd.wap.si
text/vnd.wap.sl
text/vnd.wap.wml wml
text/vnd.wap.wmlscript wmls
text/x-asm s asm
text/x-c c cc cxx cpp h hh dic
text/x-fortran f for f77 f90
text/x-java-source java
text/x-nfo nfo
text/x-opml opml
text/x-pascal p pas
text/x-setext etx
text/x-sfv sfv
text/x-uencode uu
text/x-vcalendar vcs
text/x-vcard vcf
text/xml
text/xml-external-parsed-entity
video/1d-interleaved-parityfec
video/3gpp 3gp
video/3gpp-tt
video/3gpp2 3g2
video/bmpeg
video/bt656

video/celb
video/dv
video/encaprtsp
video/example
video/h261 h261
video/h263 h263

video/h263-1998
video/h263-2000
video/h264 h264
video/h264-rcdo
video/h264-svc
video/h265
video/iso.segment
video/jpeg jpgv
video/jpeg2000
video/jpm jpm jpgm
video/mj2 mj2 mjp2
video/mp1s
video/mp2p
video/mp2t
video/mp4 mp4 mp4v mpg4
video/mp4v-es
video/mpeg mpeg mpg mpe m1v m2v
video/mpeg4-generic
video/mpv
video/nv
video/ogg ogv
video/parityfec
video/pointer
video/quicktime qt mov
video/raptorfec
video/raw
video/rtp-enc-aescm128
video/rtploopback
video/rtx
video/smpte292m
video/ulpfec
video/vc1
video/vnd.cctv
video/vnd.dece.hd uvh uvvh
video/vnd.dece.mobile uvm uvvm
video/vnd.dece.mp4
video/vnd.dece.pd uvp uvvp
video/vnd.dece.sd uvs uvvs
video/vnd.dece.video uvv uvvv
video/vnd.directv.mpeg
video/vnd.directv.mpeg-tts

video/vnd.dlna.mpeg-tts
video/vnd.dvb.file dvb
video/vnd.fvt fvt
video/vnd.hns.video
video/vnd.iptvforum.1dparityfec-1010

video/vnd.iptvforum.1dparityfec-2005
video/vnd.iptvforum.2dparityfec-1010
video/vnd.iptvforum.2dparityfec-2005
video/vnd.iptvforum.ttsavc
video/vnd.iptvforum.ttsmpeg2
video/vnd.motorola.video
video/vnd.motorola.videop
video/vnd.mpegurl mxu m4u
video/vnd.ms-playready.media.pyv pyv
video/vnd.nokia.interleaved-multimedia
video/vnd.nokia.videovoip
video/vnd.objectvideo
video/vnd.radgamettools.bink
video/vnd.radgamettools.smacker
video/vnd.sealed.mpeg1
video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found

in path(s):

* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-jar/META-

INF/http/mime.types

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# you may not use this file except in compliance with the License.  
# You may obtain a copy of the License at  
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```

Found in path(s):

```
* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-jar/META-INF/native-  
image/io.micronaut.http/micronaut-http/native-image.properties
```

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```
/*
```

```
* Copyright 2012 The Netty Project
```

```
*
```

```
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*
```

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*
```

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* under the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1701043699_1685472631.4170268/0/micronaut-http-3-8-8-sources-  
jar/io/micronaut/http/uri/QueryStringDecoder.java
```

1.515 micronaut-json-core 3.8.8

1.515.1 Available under license :

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```
/*
```

```
* Copyright 2017-2020 original authors
```

```
*
```

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```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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*/

Found in path(s):

* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/codec/JsonStreamMediaTypeCodec.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/codec/JsonMediaTypeCodec.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/bind/JsonBeanPropertyBinder.java
*
/opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/convert/JsonNodeConvertibleValues.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/codec/MapperMediaTypeCodec.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/JsonObjectSerializer.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/bind/package-info.java

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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.
*/

Found in path(s):

* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/bind/JsonBeanPropertyBinderExceptionHandler.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/JsonFeatures.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-jar/io/micronaut/json/tree/JsonArray.java

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*
/opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
jar/io/micronaut/json/tree/JsonBoolean.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
jar/io/micronaut/json/JsonMapper.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
jar/io/micronaut/json/tree/JsonScalar.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
jar/io/micronaut/json/convert/JsonConverterRegistrar.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
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* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
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* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
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jar/io/micronaut/json/JsonStreamConfig.java
* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
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* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
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* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
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* /opt/cola/permits/1701043805_1685472414.5554533/0/micronaut-json-core-3-8-8-sources-
jar/io/micronaut/json/tree/JsonObject.java
```

1.516 dropwizard-configuration 2.1.2

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1.517 micronaut-http-client-core 3.8.8

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* /opt/cola/permits/1701043668_1685472858.5070913/0/micronaut-http-client-core-3-8-8-sources-jar/io/micronaut/http/client/loadbalance/ServiceInstanceListLoadBalancerFactory.java

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/opt/cola/permits/1701043668_1685472858.5070913/0/micronaut-http-client-core-3-8-8-sources-jar/io/micronaut/http/client/StreamingHttpClientFactoryResolver.java

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* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/qualifier/ConsumesMediaTypeQualifier.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/version/resolution/VersionResolver.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/naming/package-info.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/RouteMatchUtils.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/version/resolution/HeaderVersionResolverConfiguration.java
*
/opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/MethodBasedRouteMatch.java

* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/ErrorResponse.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/GroovyRouteBuilder.groovy
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/MethodBasedRoute.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/RouteMatch.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/DefaultUriRouteMatch.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/UriRouteMatch.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/exceptions/DuplicateRouteException.java
 *
 /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/exceptions/RoutingException.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/resource/package-info.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/BasicObjectRouteMatch.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/DefaultFilterRoute.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/DefaultRouter.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/FilterRoute.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/naming/HyphenatedUriNamingStrategy.java
 *
 /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/naming/ConfigurableUriNamingStrategy.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/qualifier/ProducesMediaTypeQualifier.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/BeanDefinitionFilterRoute.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/Router.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/exceptions/UnsatisfiedRouteException.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/AnnotatedFilterRouteBuilder.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/exceptions/UnsatisfiedQueryValueRouteException.java
 *
 /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
 jar/io/micronaut/web/router/UnresolvedArgument.java
 * /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-

jar/io/micronaut/web/router/AbstractRouteMatch.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedBodyRouteException.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/qualifier/package-info.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/version/resolution/HeaderVersionResolver.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/ResourceRoute.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/AnnotatedMethodRouteBuilder.java
*
/opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/version/VersionRouteMatchFilter.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/RouteInfo.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/filter/RouteMatchFilter.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/version/resolution/ParameterVersionResolverConfiguration.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/resource/StaticResourceResolver.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/version/VersionAwareRouterListener.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedHeaderRouteException.java
*
/opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/resource/StaticResourceConfiguration.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/NullArgument.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/DefaultRouteBuilder.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/version/resolution/package-info.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/StatusRouteMatch.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/package-info.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/version/RoutesVersioningConfiguration.java
*
/opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/UriRoute.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/StatusRoute.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedPathVariableRouteException.java

* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/filter/FilteredRouter.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedRequestAttributeRouteException.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/version/ConfigurationDefaultVersionProvider.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedCookieValueRouteException.java
*
/opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/version/resolution/ParameterVersionResolver.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/RouteBuilder.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/version/package-info.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/version/resolution/RequestVersionResolver.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/exceptions/package-info.java
* /opt/cola/permits/1701043876_1685472661.0120518/0/micronaut-router-3-8-8-sources-jar/io/micronaut/web/router/ErrorRouteMatch.java

1.524 antlr-runtime 4.10

1.524.1 Available under license :

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Implementation-Title: ANTLR 4 Runtime
Implementation-Version: 4.10
Implementation-Vendor: ANTLR
Automatic-Module-Name: org.antlr antlr4.runtime
Bnd-LastModified: 1649697827331
Build-Jdk: 11.0.13
Built-By: parrrt
Bundle-Description: The ANTLR 4 Runtime
Bundle-DocURL: <http://www.antlr.org>
Bundle-License: <http://www.antlr.org/license.html>
Bundle-ManifestVersion: 2
Bundle-Name: ANTLR 4 Runtime
Bundle-SymbolicName: org.antlr antlr4-runtime
Bundle-Vendor: ANTLR
Bundle-Version: 4.10.0
Export-Package: org.antlr.v4.runtime;uses:="org.antlr.v4.runtime.atn,org.antlr.v4.runtime.dfa,org.antlr.v4.runtime.misc,org.antlr.v4.runtime.tr

ee,org antlr.v4.runtime.tree.pattern";version="4.10.0",org antlr.v4.run
time.misc;uses:="org antlr.v4.runtime";version="4.10.0",org antlr.v4.ru
ntime.tree;uses:="org antlr.v4.runtime,org antlr.v4.runtime.misc";versi
on="4.10.0",org antlr.v4.runtime.tree.xpath;uses:="org antlr.v4.runtime
,org antlr.v4.runtime.atn,org antlr.v4.runtime.tree";version="4.10.0",o
rg antlr.v4.runtime.tree.pattern;uses:="org antlr.v4.runtime,org antlr.
v4.runtime.misc,org antlr.v4.runtime.tree";version="4.10.0",org antlr.v
4.runtime.dfa;uses:="org antlr.v4.runtime,org antlr.v4.runtime.atn";ver
sion="4.10.0",org antlr.v4.runtime.atn;uses:="org antlr.v4.runtime,org
antlr.v4.runtime.dfa,org antlr.v4.runtime.misc";version="4.10.0"
Implementation-URL: <http://www.antlr.org/runtime/antlr4-runtime>
Implementation-Vendor-Id: org.antlr
Import-Package: org.antlr.v4.gui,org.antlr.v4.runtime,org.antlr.v4.runti
me.atn,org.antlr.v4.runtime.dfa,org.antlr.v4.runtime.misc,org.antlr.v4.
runtime.tree,org.antlr.v4.runtime.tree.pattern,org.antlr.v4.runtime.tre
e.xpath
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1701043715_1685472510.8335857/0/antlr4-runtime-4-10-3-jar/META-INF/MANIFEST.MF
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-->

Found in path(s):

* /opt/cola/permits/1701043715_1685472510.8335857/0/antlr4-runtime-4-10-3-jar/META-
INF/maven/org.antlr/antlr4-runtime/pom.xml

1.525 opentelemetry-sdk-common 0.9.1

1.525.1 Available under license :

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/**

* Returns the registered value associated with this name and { @code null } version if any,
* otherwise creates a new instance and associates it with the given name and { @code null }
* version.
*
* @param instrumentationName the name of the instrumentation library.
* @return the registered value associated with this name and { @code null } version.
*/

Found in path(s):

```
* /opt/cola/permits/1701043852_1685472576.5777955/0/opentelemetry-sdk-common-0-9-1-sources-jar/io/opentelemetry/sdk/internal/ComponentRegistry.java
```

1.526 micronaut-inject 3.8.8

1.526.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1701043884_1685472419.2782958/0/micronaut-inject-3-8-8-jar/META-INF/native-image/io.micronaut/micronaut-inject/native-image.properties
```

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```
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
```

Found in path(s):

```
* /opt/cola/permits/1701043884_1685472419.2782958/0/micronaut-inject-3-8-8-jar/META-INF/maven/io.micronaut/micronaut-inject/pom.xml
```

1.527 micronaut-aop 3.8.8

1.527.1 Available under license :

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* limitations under the License.  
*/
```


Found in path(s):

- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptorBindingDefinitions.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/chain/AbstractInterceptorChain.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/ConstructorInterceptor.java
- *
- /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/kotlin/KotlinInterceptedMethod.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/internal/InterceptorRegistryBean.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/internal/InterceptorBeanMapper.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/AroundConstruct.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptorKind.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/chain/DefaultInterceptorRegistry.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptorRegistry.java
- *
- /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptorBean.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/chain/ConstructorInterceptorChain.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/ConstructorInvocationContext.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptorBinding.java

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- */

Found in path(s):

- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/exceptions/UnimplementedAdviceException.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/Intercepted.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/chain/package-info.java
- *
- /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/MethodInterceptor.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/util/KotlinInterceptedMethodHelper.kt
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/internal/intercepted/KotlinInterceptedMethod.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/Introduced.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/Around.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/Adapter.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/util/CompletableFutureContinuation.kt
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptedMethod.java
- *
- /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/Interceptor.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/Introduction.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/writer/AopProxyWriter.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/exceptions/package-info.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/util/DelegatingContextContinuation.kt
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/internal/intercepted/SynchronousInterceptedMethod.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/HotSwappableInterceptedProxy.java
- *
- /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/InterceptedProxy.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/chain/MethodInterceptorChain.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-jar/io/micronaut/aop/internal/intercepted/InterceptedMethodUtil.java
- * /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-

```
jar/io/micronaut/aop/writer/package-info.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/chain/AdapterIntroduction.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/chain/InterceptorChain.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/internal/intercepted/PublisherInterceptedMethod.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/package-info.java
*
/opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/internal/intercepted/CompletionStageInterceptedMethod.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/InterceptPhase.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/MethodInvocationContext.java
* /opt/cola/permits/1701043636_1685472619.6557014/0/micronaut-aop-3-8-8-sources-
jar/io/micronaut/aop/InvocationContext.java
```

1.528 jersey-entity-filtering 2.37

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1.530 opentelemetry-context-prop 0.9.1

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1.531 jmespath-java 1.12.223

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* /opt/cola/permits/1701043774_1685472645.9293933/0/jmespath-java-1-12-223-jar/META-INF/maven/com.amazonaws/jmespath-java/pom.xml

1.532 micronaut-jackson-core 3.8.8

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* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-

```
jar/io/micronaut/jackson/core/env/CloudFoundryVcapApplicationPropertySourceLoader.java
* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/env/package-info.java
*
/opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/parser/JacksonCoreProcessor.java
* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/env/EnvJsonPropertySourceLoader.java
* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/env/JsonPropertySourceLoader.java
* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/env/CloudFoundryVcapServicesPropertySourceLoader.java
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* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-jar/META-
INF/native-image/io.micronaut/micronaut-jackson-core/native-image.properties
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* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/tree/JsonNodeTreeCodec.java
* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/tree/JsonStreamTransfer.java
* /opt/cola/permits/1701043759_1685472447.735827/0/micronaut-jackson-core-3-8-8-sources-
jar/io/micronaut/jackson/core/tree/TreeGenerator.java
*
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1.533 dropwizard-health 2.1.2

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1.534 micronaut-management 3.8.8

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* /opt/cola/permits/1701043892_1685472602.1125991/0/micronaut-management-3-8-8-jar/META-INF/maven/io.micronaut/micronaut-management/pom.xml

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1.536 javax-el 3.0.1-b11

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LZ4 Library

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Upstream-Name: liblz4

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

Source: <https://github.com/lz4/lz4>

Files: *

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1.539 snappy 0.4

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1.540 libnss-nis 2.17

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@subheading END OF TERMS AND CONDITIONS

@page

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@subheading END OF TERMS AND CONDITIONS

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- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/mingwX64Main/okio/-Windows.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/ForwardingFileSystemTest.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/internal/Hmac.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/sizet64Main/okio/-Sizet64.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/HashingSink.kt
- *
- /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/FileSystemJavaTest.java
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/internal/-Path.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/NioSystemFileSystem.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nativeMain/okio/FileSink.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/internal/HmacTest.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/FileSystem.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/appleTest/okio/AppleByteStringTest.kt
- * /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/Path.kt

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/PathTest.kt
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*
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/unixMain/okio/-
UnixPosixVariant.kt
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jar/commonMain/okio/HashingSource.kt
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jar/jvmTest/okio/JvmSystemFileSystemTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/jvmTest/okio/ZipFileSystemJavaTest.java
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ApplePosixVariant.kt
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jar/commonMain/okio/FileMetadata.kt
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jar/jvmMain/okio/JvmSystemFileSystem.kt
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jar/commonMain/okio/ExperimentalFileSystem.kt
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jar/commonTest/okio/UnsafeCursorTest.kt
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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/SegmentedByteString.kt
*
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/SegmentedByteString.kt
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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/HashingSink.kt
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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/LargeStreamsTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/Pipe.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/WaitUntilNotifiedTest.java
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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/Utf8KotlinTest.kt

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DeprecatedUpgrade.kt

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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/-

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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nativeMain/okio/FileSystem.kt
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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/mingwX64Main/okio/WindowsFileHandle.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/internal/FixedLengthSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmTest/okio/utilNonJvm.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/utilJvm.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/TimeoutTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/FileHandleTestingFileSystem.kt
*
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/unixMain/okio/UnixFileHandle.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/internal/ResourceFileSystemTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/internal/FileSystem.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/ZipBuilder.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/JvmFileHandle.kt
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* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/CipherFactory.kt

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/CipherAlgorithm.kt

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/CipherSink.kt

*

/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/CipherSourceTest.kt

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/internal/HashFunction.kt

jar/jvmTest/okio/internal/HashFunction.kt

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/CipherSource.kt

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/internal/HashFunction.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/CipherSinkTest.kt
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```
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/CommonRealBufferedSinkTest.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/BufferFactory.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/CommonRealBufferedSourceTest.kt  
*  
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/RealBufferedSource.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/BufferedSourceFactory.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/Buffer.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/Buffer.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/Sink.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/AbstractBufferedSinkTest.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/BufferedSink.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/RealBufferedSink.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/Timeout.kt  
*  
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/Okio.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/BufferedSource.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/Sink.kt  
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/internal/-
```

Buffer.kt

```
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/commonMain/okio/BufferedSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/commonTest/okio/BufferedSinkFactory.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/nonJvmMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/commonTest/okio/BufferCommonTest.kt
*
```

```
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/commonTest/okio/CommonOkioKotlinTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/commonTest/okio/AbstractBufferedSourceTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/util.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/nonJvmMain/okio/BufferedSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/Source.kt
```

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```
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/Sink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/InflaterSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/BufferTest.java
*
```

```
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/jvmTest/okio/BufferedSinkJavaTest.java
```

```
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/jvmTest/okio/BufferedSinkTest.java
```

```
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
jar/jvmTest/okio/SocketTimeoutTest.java
```

* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/ForwardingSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/JvmOkio.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/DeflaterSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/BufferedSourceJavaTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/AsyncTimeout.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/AsyncTimeoutTest.java
*
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/GzipSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/CommonBufferTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/SegmentPool.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/GzipSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/ReadUtf8LineTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/ForwardingSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/Buffer.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/Timeout.kt
*
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/OkioTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/GzipSinkTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/TestUtil.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonTest/okio/MockSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/BufferedSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/Segment.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/DeflaterSinkTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/GzipSourceTest.java
*
/opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/BufferedSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/Utf8Test.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/nonJvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/BufferedSourceTest.java
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmTest/okio/InflaterSourceTest.java

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```
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/internal/-
RealBufferedSink.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/internal/-
RealBufferedSource.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/commonMain/okio/internal/-
SegmentedByteString.kt
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```
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jar/commonTest/okio/HashingTest.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-jar/jvmMain/okio/ByteString.kt
* /opt/cola/permits/1778740542_1692969172.4917657/0/okio-3-0-0-sources-6-
```

1.543 libpkit 0.23.5-3.el7

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== Contributors ==

- * Tatu Saloranta
- * Providing benchmark suite
- * Alec Wysoker
- * Performance and memory usage improvement

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